

Research • Faculty Resources

Research and scholarly activity are fundamental to the role of the faculty and essential to the attainment of the University's goals of academic excellence and national prominence. Research is a crucial part of graduate instruction and has profound effects upon the currency and vitality of undergraduate education. This exploration of the boundaries of knowledge is undertaken by faculty in the various departments and by the research units included in this section.

OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT

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CENTER FOR COMPUTATION AND TECHNOLOGY

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The *Center for Computation and Technology* was created in response to a funding initiative created by Governor Mike Foster and the Louisiana Legislature to invest in university research and teaching programs as engines of economic development. As stated in *Vision 2020*, the area of information technology has been selected as one of the six areas of focus by the state of Louisiana.

The center draws on the established areas of expertise at LSU in computer science, computer engineering, and information systems and decision sciences. The center also looks to create new areas of research excellence in order to provide the state and nation with graduates who are equipped to handle the growing technology infrastructure.

CENTER FOR FRENCH & FRANCOPHONE STUDIES

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The *Center for French & Francophone Studies* develops and encourages interdisciplinary research in French and Francophone literatures, cultures, and language. It provides facilities and opportunities for LSU and visiting faculty as well as for student researchers. The center is involved with all French and Francophone activities at the University and with state and national organizations. Open to faculty and students, a library of French and Francophone literature and reference materials is also housed in the Center, as is a video library containing many African francophone films.

LSU HURRICANE CENTER

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The *LSU Hurricane Center* is an interdisciplinary team of researchers addressing hurricanes and other hazards and their impacts on the natural, built, and human environments. The mission of the center is to advance the state-of-knowledge of hurricanes and their impacts; to stimulate new interdisciplinary/collaborative research activities; to transfer this knowledge and technology to students and professionals in concerned disciplines; and to assist the state, the nation, and the world in solving hurricane-related problems.

LSU has one of the greatest concentrations of faculty studying hurricanes and their many impacts anywhere in the world. This research expertise covers a very broad spectrum. It includes such areas as remote sensing of storms and their impacts on the environment; real-time monitoring and modeling of hurricane winds, waves, storm surge, and storm surge flooding; hurricane climatology and paleotempestology; wind and flood effects on the coastal environment, buildings, and other infra-structure; transportation and behavioral aspects of evacuations; social support networks and access to services for disaster victims; and many others.

Major research thrusts of the center at present include: storm surge and rainfall flood modeling and consequence assessment; modeling of travel demand and traffic for hurricane evacuation; hurricane shelter assessment and design; modeling of extreme wind effects on buildings and structures in the *LSU Wind Tunnel Laboratory*; and application of remote sensing and GIS tools to hazards mapping and monitoring. Integration of multi-disciplinary research findings to develop hurricane hazard mitigation strategies is handled primarily through the *Center for the Study of Public Health Impacts of Hurricanes*.

The LSU Hurricane Center provides an array of services to state and local governments related to education, mitigation, and emergency preparedness and response. These activities include: delivery of training courses in areas such as geospatial information systems; consequence assessment, and hurricane shelter assessment; development of hurricane exercises; storm surge and rainfall flood studies; and planning studies for shelters and refuges of last resort. When hurricanes threaten Louisiana, faculty and research staff from the LSU Hurricane Center and several collaborating units provide real-time operational support for the Louisiana Office of Homeland Security and Emergency Preparedness, as well as other emergency management agencies. This support includes storm tracking using satellite imagery,

meteorological support, storm surge flood modeling, and consequence assessment.

The center is continuing to develop two unique academic programs to complement its research and service activities. Supported by a large award from the National Science Foundation, the center and the Department of Civil & Environmental Engineering have created several courses in the field of hurricane engineering. This new discipline covers planning, analysis, design, response, and recovery of civil engineering systems.

Working with the College of Arts & Sciences and several other colleges, the center has created a new minor in disaster science and management (DSM). DSM is an interdisciplinary minor that provides students interested in emergency management-related careers in the public, nonprofit, and private sectors with:

- a broad understanding of the nature and impact of disasters on the natural, built, and human environments;
- a basis for establishing strategies to effectively plan for disasters, mitigate the adverse effects, respond to disasters, and recover from them.

DSM combines traditional emergency management with a strong background in the natural sciences, social sciences, engineering, and information technology. Participating departments/schools include Architecture, Civil & Environmental Engineering, Environmental Studies, Geography & Anthropology, Landscape Architecture, Oceanography & Coastal Sciences, Social Work, and Sociology.

Center for the Study of Public Health Impacts of Hurricanes

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Established in January 2002, the *Center for the Study of Public Health Impacts of Hurricanes* is funded through a LSU Hurricane Center initiative to the Louisiana Board of Regents. A five-year contract was awarded through the Board's Millennium Health Excellence Fund (HEF) to establish the center. A pilot study was funded through the center to research the public health impacts of major flooding and hurricanes in greater New Orleans.

The center includes 16 faculty/researchers from LSU, Baton Rouge; the LSU Health Sciences Center, New Orleans; and the Civil Engineering and Geological Sciences Department, University of Notre Dame. It consolidates the research and expertise of natural scientists, social scientists, engineers, computer specialists, epidemiologists, toxicologists, and the mental health and medical communities to form a broad-based Public Health/Flood Impact Consortium.

The center's effectiveness and practicality are enhanced by the guidance of an Advisory Panel including members from the Louisiana State Offices of Homeland Security and Emergency Preparedness; Governor's Office of Coastal Activities; Louisiana Departments of Public Health, Mental Health, and Environmental Quality; LSU Health Sciences

Center; and the EBR Parish Animal Control Center. Federal agencies involved include FEMA, EPA, and the CDC.

Various research components of the associated pilot study (of Greater New Orleans) include utilizing computer models for the calculation of storm surges and rainfall flooding, and for the simulation of air and water movement of chemical contaminants; consolidating critical information from government databases; working with Geographic Information System (GIS) technology for the documentation of at-risk areas; and determining probable chemical and sewerage release sites. Epidemiologists, social scientists, and public health experts will determine public and mental health impacts and develop management plans for such scenarios. Federal agencies involved include the Federal Emergency Management Agency (FEMA), the Environmental Protection Agency (EPA), and the Center for Disease Control (CDC). All aspects of the study are managed through an interactive GIS that will be exportable nationally and internationally.

The center and the New Orleans pilot study will offer a major service to the state of Louisiana. The center will have a direct positive impact on emergency preparedness to prevent or reduce fatalities, disease, pain, and suffering as a consequence of a major disaster. The center will also apply all applicable research results to other disasters such as tornadoes, chemical spills, and terrorism.

The center funds a number of master's and PhD students.

CENTER FOR ENERGY STUDIES

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The Center for Energy Studies provides analysis, research, information, and technology transfer on energy and environmental issues that are important to Louisiana. The center is composed of divisions for Policy Analysis, Data and Information Services, Minerals Processing Research, and Research and Development.

Also reporting through the center's executive director are a number of independent institutes and programs. These are the *Louisiana Oil Spill Research & Development Program*; the *Louisiana Geological Survey*, which includes the Basin Research Institute as its Oil & Gas Division; and the *Radiation Safety Office*. Although independent, these units all have either a state legislative or federally mandated mission, an applied resource policy focus, and a strong commitment to public service. Neither the center nor its associated independent units have academic programs, but they frequently employ graduate assistants and work with staff or faculty from academic units on projects of mutual interest.

The center, created by the Louisiana Legislature in 1982, is the state's only officially recognized energy studies center for public higher education. The center conducts, encourages, and facilitates energy-related research and analysis concerning problems and issues affecting Louisiana's economy, environment, and citizenry. Whether

conducted by its staff or by others it supports, the goal of the center is to provide a balanced, objective, and timely treatment of issues with potentially important consequences for Louisiana. The center provides information and analysis that respond to the needs of the Legislature, public agencies, and business and civic groups.

Louisiana Applied & Educational Oil Spill Research & Development Program

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Louisiana Applied & Educational Oil Spill Research & Development Program (OSRADP), under the authority of the Louisiana Oil Spill Coordinator, is outlined in R.S. 30:2495 of the Oil Spill Prevention and Response Act (Act 7) that provides funds annually for applied oil spill research.

Through an interagency agreement between the Louisiana Oil Spill Coordinator's Office and LSU, the program is administered by the University's Center for Energy Studies. Working within the program's protocols and guidelines, LSU is authorized to provide subcontracts or letter agreements through the OSRADP administrator to Louisiana's 19 eligible public institutions of higher education for a broad array of research initiatives.

With the OSRADP, Louisiana has established a mechanism whereby its public colleges and universities can apply for the necessary financial resources to conduct research on oil spill-related matters. Through coordination and cooperation with industry, government, and the University community, the program's research mission has promoted scientific endeavors that are affordable, applied in nature, and designed to guarantee that research is relevant to oil spill-related concerns in Louisiana.

Louisiana Geological Survey

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The modern *Louisiana Geological Survey* (LGS) began operations at LSU in 1931 and was officially established in 1934 by the Louisiana Legislature under state legislative Act 131. The LGS is part of LSU and is administratively under the LSU Center for Energy Studies. The Basin Research Institute (BRI) merged with LGS on July 1, 2000, and is now called the Basin Research Energy Section of the Louisiana Geological Survey.

The LGS carries out applied and fundamental geologic research in the areas of Louisiana's surface and subsurface geology, coastal geology and processes, petroleum geology, environmental geology, mineral resources, and ground water. LGS does statewide geologic mapping, producing maps and reports designed to encourage both

economic development and environmental protection. The LGS also studies geologic hazards, landslides, and active faulting, producing maps and reports designed to identify such hazards and to minimize their impacts. Earth science educational materials are provided to school teachers when requested. The LGS works cooperatively on research grants and contracts with several state and federal agencies including the Department of Natural Resources, the Department of Transportation & Development, the Office of Emergency Preparedness, the U.S. Geological Survey, and the U.S. Department of Energy.

The *Basin Research Energy Section* of the LGS includes large stratigraphic research laboratories; a computer/plotting laboratory; petrographic laboratories equipped for thin-section preparation and carbonate and siliciclastic studies; and conference rooms and storage space. A separate well-log library, a core storage facility with a work lab equipped with saws, and other core processing and photographic equipment are located nearby on campus. The LGS core repository and well log library are component collections of the *Louisiana Museum of Natural History*. Access to other laboratory facilities for geochemical, isotope, SEM, EM, XRD, sedimentology, and paleontological analyses is available in the nearby Department of Geology & Geophysics.

The LGS has a well-recognized cartography section that produces maps, atlases, illustrations, slides, and exhibits, both in support of LGS research and for other LSU departments and state agencies. The LGS cartography section, well equipped with computer equipment, plotters, and GIS facilities, has produced several official state maps including the official state map of Louisiana.

In performing its applied mission and tasks the LGS is also charged with effectively transferring geological information to the citizens of the state through the production of maps, bulletins, reports, newsletters, sponsored short courses, professional presentations, and publications. The LGS receives and answers a large number of inquiries from the public related to geologic matters, and its publications are available for sale at nominal prices.

Minerals Processing Research Division

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The *Minerals Processing Research - Division*, supported by funds from federal and state agencies and private organizations, was established at LSU in 1979. The institute conducts research on minerals processing, related business and legal issues, and environmental matters.

This research is directed at the chief minerals in the state and region: oil and natural gas, sulfur, salt, and lignite. These mineral resources are among Louisiana's most valuable assets.

Radiation Safety Office

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Authorization for Louisiana State University and Agricultural & Mechanical College to possess, store, and use sources of radiation is stipulated in a broad-scope Radioactive Material License issued by the Louisiana Department of Environmental Quality, which has vested responsibility from the United States Nuclear Regulatory Commission within the State of Louisiana. The broad-scope license allows the University maximum flexibility in the use of sources of radiation for teaching and research activities through the operation of an internal radiation safety and control program. Administrative authorization from the University is contained in Permanent Memorandum-30 (PM-30). Under the direction and supervision of the Radiation Safety Committee, the Radiation Safety Office is responsible for implementing radiation control policies and ensuring safety practice in order not only to be fully in compliance with the federal and state regulations, but also to assure individual well-being and the integrity of the University.

Approval of the Radiation Safety Office must be obtained for all procurement of radioactive materials and radiation producing equipment, all teaching and laboratory uses, research and development projects, as well as any other activities with potential radiological hazards, all contracts and grant proposals involving sources of radiation, all personnel who will directly use sources of radiation, and all facilities, construction, outfitting, and renovation involving sources of radiation.

The radiation protection program is conducted in such a manner so that radiation exposure to faculty, staff, students, the general public, and the environment will be maintained as low as reasonably achievable and that no radiation exposure will be received without societal benefit. This will be accomplished without hindering legitimate research or realistic teaching objectives. Professional health physicists equipped with a full spectrum of state-of-the-art radioanalytical instrumentation as well as high energy irradiation and neutron activation facilities are available for consultation and research development to support a broad range of radiation applications.

CENTER FOR GEOINFORMATICS

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The *Center for Geoinformatics* operates and maintains GULFNET, the 3-D positioning infrastructure that defines the National Spatial Reference System in Louisiana. The center is a national force in expanding and strengthening the university, commercial, and public-sector geospatial communities within the state of

Louisiana and the U.S. It provides the advanced geospatial information applications, products, training, and commercialization expertise that are required to support economic development and environmental stewardship.

CENTER FOR BIOMODULAR MULTI-SCALE SYSTEMS

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The Center for BioModular Multi-Scale Systems (CBM²) is a multidisciplinary center for the development of micro-/nano-scale devices with applications in medical diagnostics, forensics, drug discovery and homeland defense, and is funded by grants from National Science Foundation, Louisiana Board of Regents, National Institutes of Health and others. In addition to its primary research mission, CBM² also supports active Education/Outreach and Industrial Partnership programs.

Headquartered on LSU's South Campus, CBM² is a collaboration of leading research Universities throughout Louisiana and the nation, including LSU (including CAMD), LSU Health Science Center, Tulane Health Sciences Center, Xavier University of Louisiana, Weill Medical College of Cornell University, Baylor College of Medicine, and the Sloan-Kettering Research Institute.

INTELLECTUAL PROPERTY, COMMERCIALIZATION & DEVELOPMENT

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The objective of LSU's *Office of Intellectual Property, Commercialization, & Development* (OIP) is to commercialize the University's intellectual property—new ideas, inventions, and discoveries. This includes obtaining patents and copyrights; seeking licensees and business partners in the U. S. and worldwide to commercialize that technology; and negotiating and licensing LSU's technologies for the benefit of society, the University, and the inventors.

INTERCOLLEGE ENVIRONMENTAL COOPERATIVE

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The mission of the Intercollege Environmental Cooperative is to facilitate collaborative relationships that span traditional college and disciplinary boundaries and

enhance the research, teaching, and public outreach that is necessary to address effectively today's complex second and third generation environmental stakeholders, decision makers, and research sponsors throughout the state, region, and nation.

The Intercollege Environmental Cooperative provides a platform for multidisciplinary and interdisciplinary collaboration among LSU researchers and their partners, improves communication and exchange of ideas among environmental researchers and educators across traditional departmental and college/school boundaries, and works to establish ties with industrial organizations that can benefit from increased interaction with LSU on environmental issues.

J. BENNETT JOHNSTON, SR., CENTER FOR ADVANCED MICROSTRUCTURES & DEVICES

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The *J. Bennett Johnston, Sr., Center for Advanced Microstructures & Devices (CAMD)* was initiated by a grant from the Department of Energy in 1988. At the heart of the center is a 1.3 GeV electron storage ring. This high-energy electron accelerator produces a broad spectral range, from infrared to X-rays, of very bright and intense electromagnetic radiation, that can be used by researchers for a variety of applications.

Among these are fabrication of extremely small (sub-micon features) electronic and mechanical devices, using X-ray lithography; spectroscopic investigations of atoms, molecules, solids, and surfaces; and analytical applications for determining the structure and elemental composition of materials.

LIFE COURSE AND AGING CENTER

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By the year 2020, more than 20 percent of the population is expected to reach the age of retirement. With the increase in the number of older adults living in Louisiana, there will be a greater need to ensure the successful aging of the population of our state. The Life Course and Aging Center recognizes that successful aging begins at birth and continues through the rest of our lives. Therefore, its researchers are committed to identifying the keys to successful aging and educating the public about these important issues.

Its mission is to promote collaborative research activities across many fields including the biological, social, and psychological sciences, develop life course and aging education and curriculum, and collaborate with child and senior service organizations throughout the state. Its faculty members represent six colleges and 14 departments and programs at LSU. Areas of research include

cognitive processes and aging, early childhood development, education across the lifespan, interpersonal relations across the lifespan, lifespan development and public policy, physical processes and aging, and sociological aspects of aging.

LOUISIANA SPACE CONSORTIUM

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The *Louisiana Space Consortium (LaSPACE)*, supported by funds from the National Aeronautics & Space Administration and the Louisiana Board of Regents, is a group of Louisiana institutions of higher education working with the two state educational boards, business/industry, nonprofit organizations, and a local government partner.

The goal of LaSPACE is to enhance space and aerospace related research, technology, education, and public awareness throughout the state and to promote mathematics and science education, workforce development of aerospace professionals, diversity, and economic development. This goal is accomplished through competitive awards to researchers, fellowships for graduate students, mentored research assistantships for undergraduates, outreach to K-12 teachers and students, and public awareness events.

LaSPACE is Louisiana's representative to the National Network of Space Grant Consortia, a congressionally mandated federal/state partnership that is administered by NASA. This national network encompasses every state in the nation plus Puerto Rico and the District of Columbia.

SEA GRANT DEVELOPMENT

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The *Louisiana Sea Grant College Program* is part of the National Sea Grant College Program, a congressionally mandated federal/state endeavor that is administered by the National Oceanic & Atmospheric Administration (NOAA) of the U.S. Department of Commerce. The national program network includes 32 lead institutions and consortia, based in coastal and Great Lakes states, involving more than 250 U.S. colleges, universities, laboratories, and private entities in research, training/education, technology transfer, and advisory service activities focused on coastal and marine problems.

LSU's *Office of Sea Grant Development* is responsible for administering all activities approved by NOAA for sea grant funding in Louisiana. The mission of the Louisiana program is to provide knowledge, trained personnel, and public awareness needed to wisely and effectively develop and manage coastal and marine areas and resources in a manner that will assure sustainable economic and societal benefits. This goal is pursued by supporting and/or developing selected capabilities in the

Louisiana university community and, as appropriate, drawing on those in the national program network. The work requires:

- designing and conducting research, technology transfer, extension, and educational activities involving a broad range of natural science, engineering, economic, legal, public policy, and sociological expertise, and
- extensive cooperation with pertinent federal, state, business, and citizen groups. Providing a base of fundamental research and bringing the results to the market by enhancing existing businesses and growing new businesses are key program elements.

The Louisiana Sea Grant NOAA-funded core program supports individual projects at universities throughout Louisiana. These projects typically support graduate students, as well as provide undergraduate students with the opportunity to work on research-related activities. There is also an annual, national competition for approximately 50 Sea Grant Marine Policy Fellowships that provide selected graduate students a unique opportunity to spend a year working in host offices of the U.S. Congress, federal agencies, or associations/institutions located in the Washington, D.C., area. Core program activities are supplemented with projects funded by various federal and state agencies that have mutual goals and interests. Private sector support for the program is exemplified by the John P. Laborde Endowed Chair for Sea Grant Research and Technology Transfer that brings highly qualified scientists to LSU for periods from one semester to two years to work on marine and coastal issues identified as critical to Louisiana.

In 1978, LSU was named a Sea Grant College—the 13th university in the nation to be so designated and the highest classification attainable in the program. This status was reaffirmed by national performance evaluation teams in 2006. LSU is presently one of only 21 universities in the U.S. designated as a land-grant, space-grant, and sea-grant institution.

SPONSORED PROGRAMS

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The *Office of Sponsored Programs*, an administrative unit of the Office of Research and Economic Development, provides advice and support to the LSU community in the acquisition and administration of externally funded projects to further the instruction, research, and public service mission of the University. The office provides institutional endorsement for proposals, negotiates terms and conditions of awards with sponsors, executes agreements on behalf of the institution, prepares and negotiates subawards, serves as point-of-contact for audits of sponsored projects, processes requests for security clearances, and controls all classified documents. The office also conducts seminars and workshops on federal, state, and institutional requirements; proposal development; and project management.

OFFICE OF ACADEMIC AFFAIRS

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COMMUNICATION ACROSS THE CURRICULUM (CxC)

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Communication across the Curriculum (CxC), established in 2004 with a generous gift from LSU engineering alumnus Gordon Cain, helps undergraduates become more sophisticated communicators using the written word, speech, visual images, and digital communication.

Through direct work with students, faculty members, departments, and colleges, as well as through its Web site, CxC provides students with the following:

- increased opportunities for building communication skills in courses
- direct assistance on assignments and access to advanced software and equipment in Communication Studios
- a Distinguished Communicator certification program, including building digital portfolios of communication work
- models of outstanding communication, especially by LSU students
- opportunities for leadership and career development
- connections between communication and service-learning
- public recognition of outstanding student communication

Students who complete Communication-Intensive (C-I) classes will receive a special designation for each class on their transcripts. Students who meet high standards in communication in multiple C-I classes and build an exemplary digital portfolio will be recognized at graduation and on their transcripts as Distinguished Communicators.

CxC provides faculty the following services:

- fall and spring workshops on teaching Communication-Intensive (C-I) courses
- summer institutes on building or redesigning C-I courses
- sample syllabi and communication assignments from faculty at LSU and other universities and examples of excellent student projects
- mini-grants and travel for the development of C-I courses
- a venue for publishing research on the intersection of scholarship and the work of CxC
- a speaker series, awards, and other public acknowledgment of communication work in the classroom

A CxC Advisory Council, comprised of members from across the disciplines and administrative offices on campus, has been established by the Provost. The Advisory Council, in consultation with the appropriate committees on campus, has developed criteria for certifying courses as Communication-Intensive (C-I) and for certifying students who meet high standards of communication. A C-I course is built around the following components: significant writing, significant speaking, and uses of visual communication and technology for communication. Criteria for students seeking recognition for high standards of communication include building a digital portfolio that showcases a student's examples of writing, speaking, use of communication technology, and visual communication.

INFORMATION TECHNOLOGY SERVICES

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LOUIS: The Louisiana Library Network

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The Louisiana Library Network combines the resources of Louisiana's public and private academic libraries, along with a centralized support staff located on the LSU campus, to produce a dynamic library consortium. The central support staff, commonly referred to as "LOUIS," provides many services to consortium members such as library automation, a union catalog, a digital library, electronic resources, authentication, training, consulting, and hosting related listservs and Web sites. Established in 1992 by the Board of Regents, LOUIS has 43 members and receives approximately \$3.5 million annually in contracts and membership fees to support consortium members.

Networking and Infrastructure

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LSU Networking and Infrastructure is responsible for the campus voice and data networks, messaging, back office server support and a 7x24 Network Operations Center (NOC).

Network facilities include 1,500 wireless access points, extensive fiber and copper infrastructures that support 30,000 network nodes, 14,000 telephone ports and a core data network capable of transmitting up to 30Gigabits per second. LSU is a member of National Lambda Rail, Internet2, SURAgrid, and Louisiana Optical Networking Initiative and has been designated a vBNS Authorized Institution by the National Science Foundation.

Back office server operations provide enterprise level support for Microsoft Windows server platforms including SQL servers, IIS, Exchange and Active Directory in support of campus wide applications.

The Network Operations Center (NOC) provides uninterrupted operational, production control and monitoring services 24 hours a day, 365 days per year. The NOC monitors mainframe services and applications, campus network equipment and services, network traffic, network security systems as well as all external connections to the LSU network.

Research IT Enablement

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LSU Research IT Enablement (RE) is responsible for the development and support of services enabling LSU's premium computing environment. The overall high performance computing environment, in partnership with the Center for Computation and Technology (CCT), features a new centerpiece supercomputer called Tezpur and Pelican, a parallel supercomputing cluster. A total of 18.9 million hours of computational resources are available annually through a diverse set of supercomputing platforms, and the overall capability of the environment exceeds 21.9 trillion numerical operations per second. RE, through a contract with the Louisiana Board of Regents, supports the state's Louisiana Optical Network Initiative (LONI), and is responsible for the installation and operation of its network infrastructure and computational resources. With well over 80 teraflops of computational capacity, LONI features the nation's largest computational grid environment owned by higher education.

University Information Systems

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University Information Systems (UIS) develops comprehensive management information systems for the University. UIS has developed and installed more than 50 major applications, including registration, degree audit, admissions, payroll, general ledger, and financial aid.

The division is also responsible for Personal Access Web Services (PAWS), a Web-based portal available to all students, faculty, and staff. To date, approximately 70,000 individuals have obtained PAWS portals. Each individual's portal is unique and is customized to reflect the individual's relationship to the University. Further, each portal dynamically adapts in real-time when this relationship changes. Services accessed through the PAWS portal include enterprise, workgroup, and personal applications that meet the specific administrative, academic, and research needs of each PAWS user. Some of the most widely used PAWS applications include: e-mail, registration, degree audit,

grade inquiry, financial aid inquiry, library collections, and course tools.

The division includes System Programming; IS Architectures; HR/Financial Applications; Student and Research Applications; and Portals of Business Intelligence.

User Support and Student IT Enablement

EXECUTIVE DIRECTOR/DEPUTY CIO • Childs
OFFICE • Frey Computing Services Center
TELEPHONE • 225-578-3700
FAX • 225-578-3709

User Support and Student IT Enablement (USS) serves as the primary campus interface for information technology services at LSU. Located in the Frey Computing Services Building and in the Middleton Information Commons, the Help Desk, Print Desk, Adaptive Technology Services, and the Visualization Services Center provide both walk-up and telephone technical assistance to faculty, staff, and students. IT training and education opportunities are offered on a variety of introductory and advanced topics, in addition to customized training upon request. The GROK Knowledge Base (grok.lsu.edu) serves as an on-line repository of the latest campus technical information, as well as an FAQ of common computing questions and answers. TigerWare (tigerware.lsu.edu) is LSU's on line software warehouse, where faculty, staff, and students can download both freeware and institutionally licensed software. USS also maintains and supports the computing labs and multi-media classrooms located prominently throughout campus, where faculty and students have access to both Windows and Macintosh computers and instructor stations loaded with the latest general use and discipline-specific software programs. USS also provides Campus Telephone Directory Services, as well as technical assistance to department via its Departmental Services and topic-based IT forums each semester.

GORDON A. CAIN CENTER FOR SCIENTIFIC, TECHNOLOGICAL, ENGINEERING, & MATHEMATICAL LITERACY

INTERIM DIRECTOR • Wischusen
OFFICE • 222 Prescott Hall
TELEPHONE • 225-578-6001
FAX • 225-578-4522
WEB SITE • www.cain.lsu.edu

The *Cain Center for Scientific, Technological, Engineering, & Mathematical Literacy* provides support for Louisiana educators who are working to prepare citizens who are literate in the science, technology, engineering, and mathematics disciplines to support 21st century economic and societal needs. The center fosters cross-disciplinary collaborations made possible through its joint sponsorship by the Colleges of Arts & Sciences, Basic Sciences, Education, and Engineering.

The goals of the center include:

- providing leadership for interdisciplinary research and development in the teaching

and learning of the science, technology, engineering, and mathematics disciplines at all educational levels;

- disseminating research and practice that leads to high student achievement, especially in the science, technology, engineering, and mathematics disciplines;
- creating opportunities for collaboration across disciplines and with K-12 educational practitioners in investigating, developing, and implementing strategies for enhancing teaching and learning in the science, technology, engineering, and mathematics disciplines; and
- influencing policy concerning the teaching and learning of the science, technology, engineering, and mathematics disciplines.

CENTERS FOR EXCELLENCE IN LEARNING & TEACHING

EXECUTIVE DIRECTOR • Hutchinson
OFFICE • 118 Himes Hall
TELEPHONE • 225-578-1135
FAX • 225-578-5789
WEB SITE • www.celt.lsu.edu

The *Centers for Excellence in Learning & Teaching* (CELT) provides resources and services to improve institutional effectiveness and student learning.

An Advisory Council consults with the executive director of the CELT to provide guidance in the centers' activities and serves as a liaison between the faculty and the CELT. Members of the Advisory Council are appointed by the provost and represent each college and school, the LSU Libraries, the Graduate School, the Faculty Senate Improvement of Instruction Committee, and students.

CELT administers and facilitates the following:

- the annual Distinguished Faculty Awards program;
- the Teaching Enhancement Fund, established by the Campus Federal Credit Union, to assist faculty in attending off-campus conferences that enhance their teaching; and
- the Teaching in Higher Education (THE) Forum, a national conference on college teaching.

Three CELT units serve the University community: the Center for Assessment & Evaluation (CAE), the Center for Instructional Media Services (CIMS), and The Faculty Center (FC).

The *Center for Assessment & Evaluation* (CAE) offers both theoretical and practical measurement support and services to the University community, including the following:

- Consultation on tests, measurements, program evaluation, and assessment of student learning outcomes
- Administration of the *University Assessment Matrix*, including design of formats for assessment of student learning in academic degree programs
- Administration of computer-based testing for LSU courses
- Administration of course placement and advanced-standing credit assessments

- Large-scale and localized test development, administration, statistical analysis and score reporting
- Electronic test scoring, statistical analysis, and reporting of data gathered via machine-scannable forms
- Custom survey design, production, statistical analysis and reporting in both scan and computer-based modes
- Development and implementation of experimental designs employing qualitative methodologies such as focus groups and group interviews
- Administration of programs for *student teaching evaluations* of faculty
- Coordination of large-scale national surveys and assessments for institutional effectiveness
- Computer-based testing for externally-based entrance and proficiency examinations

The *Center for Instructional Media Services* (CIMS) provides opportunities for faculty to enrich student learning through innovative and practical applications of instructional technologies and strategies for today's digital learning environment. Services offered by CIMS:

- **Classroom Technology Support Services** provides maintenance and technical support in conjunction with Smart Classroom Electronic Services for 156 smart classrooms and maintains a large inventory of mobile instructional technology and audio visual equipment for use in other classrooms and events on campus. Classroom Technology is located in 121 Himes Hall.
- **Photographic Services** specializes in digital and film photography tailored to meet the demands of campus faculty, staff, and students. From documentation to portrait services, they are ready to meet any photographic challenge. Photographic Services' lab and studio is located in 141 Himes Hall.
- **Smart Classroom Electronic Services** monitors and repairs multimedia equipment in Student Technology Fee Program funded smart classrooms. This unit maintains projectors and lectern mounted equipment in smart classrooms; whereas, Information Technology Services maintains classroom computers. One-on-one training in proper usage of classroom multimedia equipment is available upon request. Additionally, Electronic Services can assist other campus entities in budgeting, procurement, and installation of multimedia.
- **Videoconferencing Services** provides facilities and staff to support distance education classes. Ad hoc conferences, department requests, and special event videoconferences can be scheduled as well. This unit also supports audio/video capture of campus courses in selected classrooms.

The *Faculty Center* promotes and enhances teaching excellence by providing services, resources, and programs for LSU faculty, graduate teaching assistants, and their colleges and departments. The Faculty Center is committed to teaching and learning initiatives designed to foster innovation in teaching, to encourage peer collaboration, and to recognize and reward excellence in teaching. The Faculty Center provides:

Consultations

- Individual teaching consultations
- Departmental collaboration on teaching innovations, GTA preparation, mentoring
- Infusing technology into courses
- Collaboration on grant proposals involving an instructional component
- Mid-semester student feedback
- Teaching portfolio development
- Course design and redesign

Seminars, Workshops, Discussions

- Teaching and learning series
- Technology training
- Faculty learning communities
- 12:10 Book Club
- Teaching conversations
- GTA development
- Third Friday Department Chairs' Discussion Group

Events

- Provost's Seminar on Teaching for New Faculty
- New Faculty Orientation
- Graduate Teaching Seminar
- Summer Reading Program & Academic Convocation

Resources

- Faculty resource library including books, journals, and videos on teaching and learning
- Electronic resources
- Education-related conferences
- Instructional materials

LSU LIBRARIES

DEAN • Cargill, Joel and Kathleen Ory Professor
OFFICE • 295 Middleton Library
TELEPHONE • 225-578-2217
FAX • 225-578-6825
WEB SITE • www.lib.lsu.edu

LIBRARIAN EMERITA • Kleiner

LIBRARIANS • Cargill, Diamond, Phillips, Smyth

ASSOCIATE LIBRARIANS • Anderson, Armstrong, Bensman, Blessinger, Chalaron, Colyar, Griffin, S. Kelsey, Kuyper-Rushing, Laver, Martin, Morrison

ASSISTANT LIBRARIANS • Bell, Braunstein, Costello, Daugherty, Fontenot, Hrycaj, Lee, Lercher, Nicholson, Rasmussen, Riquelmy, Russo, Ryan

GENERAL LIBRARIANS • Bolton, Brady, Carrasquel, Henson, Jensen, Karalius, Mitchell, Palermo, Tarbell

The *LSU Libraries* offer students and faculty strong support for instruction and research through collections containing more than three million volumes, microform holdings of more than five million, and a manuscript collection of more than 12 million items. LSU is part of the Louisiana Online University Information System (LOUIS). The library catalogs of most universities in the state are accessible online. Periodical databases and full text journal articles can also be retrieved through the network. The LSU Libraries' subject strengths include Louisiana materials,

sugar culture and technology, Southern history, agriculture, petroleum engineering, plant pathology, natural history, and various aspects of aquaculture including crawfish, wetlands research, and marine biology.

The LSU Libraries belong to the prestigious Association of Research Libraries, which include the top 113 academic libraries in the U.S. and Canada, the Association of Southeastern Research Libraries, the Southeastern Library Network, and the Louisiana Academic Library Information Network Consortium. Middleton Library is the main library, with special collections housed in the adjacent Hill Memorial Library.

The open-shelf arrangement of the main collection in Middleton Library makes material completely accessible; assistance is offered through Reference Services and the periodical desk on the first floor. Information regarding library services, such as the electronic databases and journals and bibliographic instruction, may be obtained from the Reference Desk and through the library Web site.

Other features of Middleton Library are audio workstations for accessing music and a microforms area. Self-service photocopying machines are available at a nominal cost. When material not found in the Libraries is needed for research, faculty, staff, and students may borrow it through interlibrary borrowing.

LSU Libraries' U.S. Regional Depository Library collection, the United Nations documents collection, and the U.S. Patent Depository Library collection are housed in Middleton Library. The Library has been a depository for publications of the federal government since 1907 and has a substantial portion of the U.S. documents issued before and after that time. In 1964, the Library became a Regional Depository Library. The holdings of United Nations publications date from the establishment of the United Nations in 1947. In 1981, the Library was designated an official depository for U.S. Patents. The patent collection includes all patents issued from 1871 to the present. The department also has an extensive collection of scientific and technical reports from the U.S. Department of Energy, the National Aeronautics and Space Administration, and the National Technical Information Service.

The LSU Libraries *Special Collections* in Hill Memorial Library provide a center for research in the humanities, social sciences, and fine arts. The primary strength of Special Collections resides in *The Louisiana and Lower Mississippi Valley Collections*, an outstanding integrated collection that consists of materials documenting the history and culture of the region. It provides rare and early imprints pertaining to the exploration and colonization of the region; books on Louisiana subjects; books by Louisiana authors; Louisiana state documents; extensive and prestigious manuscript collections, which include the personal papers of important individuals in the history of the region, including the Long family; records of businesses, professions, and organizations; and extensive photographic collections.

University Archives, administered by Special Collections and housed in Hill Memorial Library, is the official repository for all permanent noncurrent records of academic and administrative units of the University. In addition, the University Archives is the office

on campus charged with records management duties.

The Rare Book Collections is wide-ranging and eclectic in nature, with concentrations in 18th century English literature and history; book arts and the history of the book, including the Bruce Rogers Collection; New World exploration and travel; economic history; and science fiction and fantasy.

The E. A. McIlhenny Natural History Collection was donated to the LSU Libraries in 1971, in memory of Edward Avery McIlhenny, whose private library forms the core of the collection. Rich in ornithological and botanical art, it is an exceptional resource for researchers in the history of those fields. High points in this collection include James Audubon's double-elephant folio *Birds of America*, and the "Native Flora of Louisiana" collection of original watercolor drawings by internationally renowned botanical artist Margaret Stones.

The *T. Harry Williams Center for Oral History* and the *United States Civil War Center* are also administered as part of the Special Collections but are located in the Agnes Morris House on Raphael Semmes Drive. The *Center for Oral History* was established 1991 as an interdisciplinary program that supports and encourages the collection, preservation, and dissemination of the social, political, cultural, and economic history of Louisiana through the use of tape-recorded interviews. Tapes and transcripts generated by the program and its affiliated researchers are deposited in the *Louisiana and Lower Mississippi Valley Collections*.

The *United States Civil War Center* was created in 1993. The center's mission is to promote the study of the Civil War from the perspectives of all professions, occupations, and academic disciplines. Projects and programs include a clearinghouse Web page and the *Civil War Book Review*.

LSU MUSEUM OF ART

EXECUTIVE DIRECTOR • Livesay
OFFICE • Shaw Center for the Arts
TELEPHONE • 225-389-7200

The *LSU Museum of Art*, located in the Shaw Center for the Arts, 100 Lafayette St., houses the University's permanent fine arts collection of ceramics, drawings, paintings, and sculpture. The collection highlights include English and American decorative and fine arts representing the early 17th through the mid-19th centuries, Chinese jade, and Inuit sculpture.

Artists represented by the painting, print, and drawing collections include Thomas Gainsborough, Sir Joshua Reynolds, Benjamin West, and Rembrandt Peale. The museum's collection of the graphic works of the late Caroline W. Durieux, internationally recognized printmaker, is the most comprehensive in existence. The museum houses outstanding collections of New Orleans-made silver and Newcomb pottery made in New Orleans in the early part of the 20th century.

A selection from the museum's permanent collection of more than 4,000 objects is always on exhibition. The Museum features six to eight temporary exhibitions each year with additional information available through the

Web site. Museum hours are 10 a.m. to 5 p.m. on Tuesday, Wednesday, Friday, and Saturday; 10 a.m. to 8 p.m. on Thursday; and 1 p.m. to 5 p.m. on Sunday. Closed on major holidays. The museum has an admission fee. More information can be found at www.lsumoa.com.

LOUISIANA MUSEUM OF NATURAL HISTORY

CONTACT PERSON • Hafner
OFFICE • 119 Foster Hall
TELEPHONE • 225-578-3083
FAX • 225-578-3075
WEB SITE • www.lsu.edu/museum

The *Louisiana Museum of Natural History*, the official state museum of natural history, consists of 16 major research collections located on the LSU campus. Together, these collections hold a total of more than 2.8 million specimens, objects, and artifacts that document the rich natural history of Louisiana, the central-Gulf region, and the world. These collections are dispersed among six independently administered units on campus, and include the *Vascular Plant Herbarium*, the *Mycological Herbarium*, the *Lichen Herbarium*, the *Log Library & Core Repository*, the *Louisiana State Arthropod Museum*, the *Center for Excellence in Palynology*, the *Gems & Minerals Collection*, the *Textile & Costume Museum*, and eight collections of the *Museum of Natural Science* (the *Collection of Amphibians & Reptiles*, the *Collection of Birds*, the *Collection of Fishes*, the *Collection of Genetic Resources*, the *Collection of Mammals*, the *Vertebrate Paleontology Collection*, the *Collection of Fossil Protists & Invertebrates*, and the *Ethnology-Archaeology Collection*).

The collections of the *Louisiana Museum of Natural History*, used actively for education, research, display, and public service, represent an important historical trust for future generations of Louisiana's citizens. Details about each collection, including educational and exhibits programs, can be obtained by contacting the curator-in-charge of the collection (see individual listings) or by visiting the museum's Web site.

RURAL LIFE MUSEUM AND WINDRUSH GARDENS

DIRECTOR • Floyd
OFFICE • 4560 Essen Lane
TELEPHONE • 225-765-2437
FAX • 225-765-2639
E-MAIL • rlife1@lsu.edu

The *Rural Life Museum*, a 32-building complex, is located approximately five miles from campus on the University's 450-acre Burden Research Plantation. Open daily, this unique outdoor museum is divided into three areas. *The Barn* contains hundreds of artifacts dealing with everyday rural life dating from prehistoric times to the early 20th century. *The Plantation* consists of a complex of buildings, commissary, overseer's house, kitchen, slave cabins, sick house, schoolhouse, blacksmith's shop, sugarhouse, and grist mill, authentically furnished to reconstruct all the major activities of life on a typical 19th century sugarcane plantation. *Louisiana Folk Architecture* is exemplified in seven buildings, a country

church, a pioneer's cabin and corn crib, potato house, shotgun house, Acadian house, and a dogtrot house, whose divergent construction traits illustrate the various cultures of Louisiana settlers.

Adjacent to the museum are the *Windrush Gardens*, designed and planted by the late Steele Burden. This five acre expanse of semiformal gardens with winding paths and open areas is reminiscent of 19th century Louisiana gardens. The museum and gardens are open daily from 8:30 a.m. to 5 p.m. Admission is charged.

LSU PRESS

DIRECTOR • Callaway
OFFICE • 3990 West Lakeshore Drive
TELEPHONE • 225-578-6294
FAX • 225-578-6461

Founded in 1935 as an integral part of the plan to expand and improve Louisiana State University, the LSU Press quickly established itself as a major publisher of books about the South. As one of the outstanding scholarly publishers in the country and the only academic publisher in the state, LSU Press remains committed to publishing the best books, books that will inform, educate, and enlighten readers. A nonprofit institution, the LSU Press's publishing list is mission driven, not profit driven.

Without LSU Press, many classic works might never have been published. Our list of more than 2000 books includes the monumental *A History of the South: The Encyclopedia of Southern History*, *The History of Southern Literature*, *The Complete Works of Kate Chopin*, *The Collected Poems of Robert Penn Warren*, *The Papers of Jefferson Davis*, and *A Confederacy of Dunces*.

LSU Press publishes approximately 80 new books a year by authors from our region and around the world. Our global publishing perspective ensures that we continue to be recognized for distinguished publishing in the areas of southern history, Atlantic studies, southern literature, the Civil War, poetry, fiction, jazz studies, environmental studies, media studies, African American studies, and Louisiana and the Gulf South region.

Our books are published to rigorous standards, including approval by the Faculty Senate University Press Committee, which is composed of eight faculty members.

NATIONAL CENTER FOR SECURITY RESEARCH & TRAINING

DIRECTOR • Fernandez
OFFICE • 3160 Pleasant Hall
TELEPHONE • 225-578-3299
FAX • 225-578-9119
WEB SITE • www.lsu.edu/ncsr

The *National Center for Security Research & Training* (NCSRT) has been established to coordinate efforts in security research and training. The University is currently a leader in providing training on anti-terrorism and counter-terrorism techniques and regularly supports projects initiated by state and federal law enforcement agencies. The purpose of the center is to:

- establish a coordinated, university-based system to promote interaction and collaboration toward the common objectives of safety and security;
- coordinate the activities of existing units that focus on security and emergency preparedness;
- create a collaborative structure that incorporates faculty expertise; and
- partner with private and public entities.

LSU Fire & Emergency Training Institute

DIRECTOR • Gleason
OFFICE • 6868 Nicholson Drive
TELEPHONE • 225-766-0600 or
800-256-3473
FAX • 225-765-2416
WEB SITE • www.feti.lsu.edu

Activities at the 82-acre training center south of the LSU campus include courses taught in every parish in Louisiana. A series of specialized programs taught at the center meet in-service needs by incorporating the national standards for both career and volunteer firefighters. These programs include instruction in aircraft rescue; hazardous materials; emergency medical services; marine firefighting; urban search and rescue; and high angle, rope, and confined space rescue. In addition, the Industrial Program offers specialized, OSHA-approved industrial training courses for individuals and fire brigades, both at the training center and at industrial plant sites. The above classes are also available for labor-incumbent worker programs.

The *EMS Program* has been expanded to include not only basic life support and EMT basic courses, but human anatomy and physiology and a one year EMT paramedic course.

The *Firefighter & Emergency Responder Certification Program* offers certification testing for career and volunteer firefighters at all levels of the National Fire Protection Association Professional Qualification Standards. The certification process is accredited by the International Fire Service Accreditation Congress. Although the program is not mandatory, it is strongly supported by the state's fire service associations. Online training is presently available for Fire Fighter I.

Information concerning classes and schedules can be found on the Web site.

National Center for Biomedical Research & Training

DIRECTOR • Tucker
OFFICE • 3190 Pleasant Hall
TELEPHONE • 225-578-1375
FAX • 225-578-8973
WEB SITE • www.ncbrt.lsu.edu

The *National Center for Biomedical Research & Training* (NCBRT), *Academy of Counter-terrorist Education* (ACE) at LSU is a primary component of the National Center for Security Research and Training (NCSRT). The NCBRT is a national leader in the development and delivery of a wide range of training programs in the areas of homeland security, domestic and international terrorism, weapons of mass destruction, and high-consequence events. Since 1998, the NCBRT has developed over ten courses certified by the Department of Homeland Security for the emergency responder community. Course topics include: prevention and deterrence,

tactical operations, law enforcement operations, emergency response to biological incidents, sampling, and agroterrorism, just to name a few. These courses are delivered year round by NCBRT adjunct instructors to law enforcement, fire and emergency personnel; medical and public health professionals; and local, state, and national law makers throughout the United States and its territories.

THE SOUTHERN REVIEW

EDITOR • Leiby
OFFICE • Old President's House
TELEPHONE • 225-578-5108
FAX • 225-578-5098

The Southern Review, now in its second series, is a literary journal published quarterly under the editorship of Professor Jeanne Leiby. Founded in 1935 by Cleanth Brooks, Robert Penn Warren, Albert Erskine, and Charles Pipkin, *The Southern Review* publishes contemporary poetry, fiction, essays, and book reviews, as well as translations and reproductions of visual art. Subscriptions are \$25 a year for individuals and \$50 a year for institutions. Manuscripts (accompanied by SASEs) and subscription orders should be addressed to *The Southern Review*, Old President's House, LSU, Baton Rouge, Louisiana 70803. For more information visit the journal online at www.lsu.edu/tsr.

COLLEGE OF AGRICULTURE

DEAN • Koonce
OFFICE • 124 Agricultural Administration Building
TELEPHONE • 225-578-2362
FAX • 225-578-2526

Louisiana State Arthropod Museum

DIRECTOR • Carlton
CURATOR • Bayless
OFFICE • 575 Life Sciences Building
TELEPHONE • 225-578-1838
FAX • 225-578-1643
WEB SITE • www.entomology.lsu.edu/lSAM
E-MAIL • ccarlnt@lsu.edu

The *Louisiana State Arthropod Museum* (LSAM), located in the Life Sciences Building, is a part of the Department of Entomology and a component collection of the *Louisiana Museum of Natural History*. The LSAM is the largest repository of insects and related arthropods in Louisiana. It houses approximately 850,000 specimens, including 700,000 pinned specimens, 100,000 fluid-preserved samples, and 30,000 microscope slides. One of the main strengths of the collection is a nationally significant beetle collection. In addition to preserving examples of the non-marine arthropod fauna of Louisiana, the LSAM's holdings include substantial numbers of specimens from elsewhere in the southern United States, Central and South America, and the Caribbean region.

The LSAM serves the research needs of Louisiana's scientific community by conserving voucher specimens generated by projects in agricultural entomology, biodiversity, and conservation biology. It serves the needs of the public by providing

identifications of insects and other non-marine arthropods and by providing information about their habits and life histories. Specimen loans are made to qualified researchers throughout the world. The LSAM is not open to the general public and no exhibits are maintained, but requests for identifications and related information are welcome.

LSU Textile & Costume Museum

DIRECTOR • Rabalais-Vinci
OFFICE • 140 Human Ecology Building
TELEPHONE • 225-578-2403
FAX • 225-578-2697
WEB SITE • www.textilemuseum.hu.ec.lsu.edu
E-MAIL • textile@lsu.edu

The *Textile & Costume Museum* offers changing exhibitions of regional, national, and international interest. Museum hours are 8 a.m. to 4:30 p.m., weekdays. The scope of the museum's more than 12,000 piece collection is global. Holdings include prehistoric and ethnic textiles and costume as well as contemporary high fashions and high-tech textiles. Types of items include apparel, accessories, household textiles, piece goods, books, patterns, and a variety of items related to textile and apparel production, use, and care. As part of the School of Human Ecology, the museum promotes conservation, research, teaching, and public service. Research includes studies of the technical, aesthetic, historic, and sociocultural significance of textiles and apparel. It is a component collection of the Louisiana Museum of Natural History at LSU.

The organization, Friends of the Textile & Costume Museum, supports the goals and functions of the museum by providing funds for purchases, exhibitions, workshops, and other activities throughout the year.

Public Management Program

HEAD • Naquin
OFFICE • 201 Old Forestry Building
TELEPHONE • 225-578-6645
FAX • 225-578-6473

The *Public Management Program* (PMP) serves as the research to practice affiliate for the Human Resource Education program within the School of Human Resource Education and Workforce Development. Incorporating research-based theory and current best practices, this unit offers a comprehensive array of human resource development activities to the public sector on a state, national, and international level. Specific activities include: training program design and delivery; strategic planning services; performance improvement on an individual, work group, and organizational level; process improvement; performance evaluation; adult literacy program development and delivery; curriculum design; program evaluation; organizational development strategies; workplace literacy program development and delivery; career development strategies; succession planning activities; and competency model development and implementation. PMP offers seminars, consultation services, and in-service training programs through traditional classroom instruction as well as state-of-the-art technology-based collaborative learning methodologies. The unit also develops and

publishes research quality documents (both internally and through peer review systems) on various governmental and organizational issues. These services are provided by Public Management staff and University professors.

This unit is designated as the sponsoring agency for the *Comprehensive Public Training Program* (CPTP), a training and educational program authorized by the 1979 Louisiana Legislature. CPTP is designed to increase the skill and knowledge of state employees and non-elected officials. The *Certified Public Manager Program* (CPM), a nationally recognized and accredited certification program, is open to persons holding a management position within state government or nominated by their supervisors for promotion to such a position. The CPM curriculum includes 300 instructional hours in management and approved elective courses. On completion of the program, participants are awarded the Certified Public Manager (CPM) designation.

COLLEGE OF ART & DESIGN

INTERIM DEAN • Cronrath
OFFICE • 102 Design Building
TELEPHONE • 225-578-5400
FAX • 225-578-5040

Computer-Aided Design & Geographic Information Systems Research Laboratory

DIRECTOR • Kennedy
OFFICE • 216 Design Building
TELEPHONE • 225-578-6134
FAX • 225-578-5040
WEB SITE • cadgis.lsu.edu

The *Computer-Aided Design & Geographic Information Systems Research Laboratory* (CADGIS) is dedicated to education and research in computer-aided design, geographic information systems, remote sensing, image processing, and other computer applications in the areas of art, architecture, disaster sciences, geography, anthropology, interior design, and landscape architecture. This multidisciplinary laboratory, operated jointly by the College of Art & Design and the Department of Geography & Anthropology, provides specialized support to academic and research units at LSU, to state and federal agencies, and to nonprofit organizations.

Sponsored projects conducted by the laboratory include land-use planning, resource analysis, computer mapping, digital terrain modeling, three-dimensional design modeling, and graphic displays of scientific data. CADGIS develops and hosts a variety of Web sites, including the GIS clearinghouse cooperative for hurricanes Katrina and Rita (<http://katrina.lsu.edu>) and Louisiana Atlas (<http://atlas.lsu.edu>).

CADGIS has two instructional laboratories, one research laboratory, and seminar rooms with IP-based video conferencing capabilities. A wide range of software is available, including CAD, GIS, 3-D modeling, animation, video editing, terrain modeling, facilities management, image processing, graphic design, and internet development programs.

COLLEGE OF ARTS & SCIENCES

DEAN • Ferreyra
OFFICE • 132 Hodges Hall
TELEPHONE • 225-578-3141
FAX • 225-578-6447

English Language & Orientation Program

OFFICE • 3136 Pleasant Hall
TELEPHONE • 225-578-5642
FAX • 225-578-5710
WEB SITE • www.elop.lsu.edu
E-MAIL • elop@lsu.edu

The *English Language & Orientation Program* (ELOP) offers English language training to international students through a variety of course components. These components are designed to enable international students to attain a mastery of English for academic, professional, or personal goals and to facilitate their adjustment to the educational, social, and cultural life of the U.S. through an integrated program of language classes, orientation events, cultural activities, and field trips.

Five *Eight-Week Basic Courses* are offered each year in August, October, January, March, and June. These courses have a core curriculum of 20 hours per week in reading, grammar, composition, and spoken English. Levels are established by placement tests and range from elementary through advanced. All classes are taught by full-time faculty and graduate students.

Elective Classes offered to students in the Basic Course include: a 10-hour TOEFL Preparation Class; a 20-hour Conversation Class led by trained American students who meet with small groups of ELOP students

Admission to the English Language & Orientation Program neither signifies nor guarantees admission to LSU.

Applications to this program may be obtained by contacting the English Language & Orientation Program by mail, telephone, fax, or e-mail.

Southern Regional Climate Center

DIRECTOR • Robbins
OFFICE • E328 Howe-Russell Geoscience Complex
TELEPHONE • 225-578-5021
FAX • 225-578-2912
WEB SITE • www.srcc.lsu.edu

The *NOAA Southern Regional Climate Center* (SRCC), one of six NOAA Regional Climate Centers, provides climate data services for Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas. Housed in the Department of Geography & Anthropology, the SRCC is administered by the National Climatic Data Center (NCDC), an agency of the National Oceanic & Atmospheric Administration (NOAA).

The SRCC receives a wide array of National Weather Service (NWS) data via Internet and through a NOAA port satellite receiver. These data are processed at the SRCC and merged with historical climatic archives. These data enable the SRCC staff to monitor and assess the current state of the regional climate and to provide value-added climatic

information that promotes regional economic development. The SRCC staff, in conjunction with the LSU Hurricane Center, provides services to state emergency response officials during tropical storms and hurricanes that threaten coastal Louisiana.

Faculty, staff, and graduate students utilize SRCC climatic data and computing resources to perform applied and basic research on a variety of climate-related topics that include rainfall frequency analysis, regional flooding and drought, climatic impacts on agriculture, and numerous issues related to climatic change and variability.

Louisiana Office of State Climatology

STATE CLIMATOLOGIST • Keim
OFFICE • E327 Howe-Russell Geoscience Complex
TELEPHONE • 225-578-6870
FAX • 225-578-2912

The *Louisiana Office of State Climatology* (LOSC) has been providing climate data services to the state's public, private, industrial, and governmental sectors since the late 1970s. The LOSC is charged with maintaining historical climate data, as well as monitoring current weather trends for Louisiana, and is supported in this activity by the National Climate Data Center. Located within the Department of Geography & Anthropology, the LOSC is closely linked to the department's Southern Regional Climate Center and shares the SRCC's data and computer resources.

Louisiana Population Data Center

DIRECTOR • Singelmann
OFFICE • 30 Stubbs Hall
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The *Louisiana Population Data Center* (LPDC) was established at LSU in 1987 to provide technical support for nationally competitive research proposals in the social sciences. Although the LPDC is housed in the Department of Sociology, its mission is to serve social science researchers throughout the University. Since its inception, the LPDC has supported researchers in Psychology, Political Science, Human Ecology, Agricultural Economics, Social Work, and other academic units. The LPDC is the academic coordinating agency in Louisiana for the State Data Center (SDC) program of the Bureau of Census.

The LPDC director is the inter-University Consortium for Political and Social Research (ICPSR) organizational representative. Through this service the LPDC provides social science researchers at LSU with assistance in acquiring and accessing a vast archive of social science data stored at LSU and the University of Michigan. Funded by the LSU College of Arts & Sciences, access to these data sets is free to LSU researchers.

The center has moved to national prominence through its service and research on key social problems. Because it is self-supporting, research contracts and awards with national and local agencies have been an important component of the center's activities. Our research has been supported by funding from National Science Foundation, U.S.

Department of Agriculture, National Institute on Aging, Minerals Management Service, National Marine Fisheries Service, and the Rockefeller Foundation at the national level, and the Louisiana Departments of Health and Hospitals, Labor, and Social Services, the Metropolitan Council of the City of Baton Rouge, and the Governor's Office of Elderly Affairs at the local and state level.

Administratively, the director of the LPDC together with an Executive Committee set center policy. Senior researchers of the center make up the Executive Committee. Upon recommendation from the center's Executive Committee, the dean of the College of Arts & Sciences appoints the director of the LPDC for a five-year term. Funded research is administered through the Office of the Vice Chancellor for Research & Economic Development.

Eric Voegelin Institute for American Renaissance Studies

DIRECTOR • Sandoz
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The *Eric Voegelin Institute for American Renaissance Studies*, a humanities-social science research institute with no instructional program, was created as a unit within the College of Arts & Sciences in 1987. The institute is named for perhaps the greatest scholar-teacher in the history of the University (1942-1958) and one of the original Boyd Professors, Eric Voegelin, of the Department of Government (renamed the Department of Political Science in the 1960s). The institute is devoted to revitalizing the teaching and understanding of the great books of Western civilization in comparison with other civilizational traditions, especially along lines embodied in Voegelin's own massive scholarship.

Largely supported by private contributions and other external funding, the institute is principally involved in two activities: *conferences* conducted both in the U.S. and abroad in the fields of constitutionalism, individual liberty, and political philosophy; and *publications* (books and monographs) in these same interest areas. It is the principal editorial and financial support unit for the large edition titled *The Collected Works of Eric Voegelin*, University of Missouri Press, 34 vols. projected, of which 33 have been published to date.

COLLEGE OF BASIC SCIENCES

DEAN • Carman
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Hearne Institute for Theoretical Physics

DIRECTORS • Dowling & Pullin
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WEB SITE • hearne.phys.lsu.edu

In 1994, LSU alumni Horace C. Hearne, Jr., endowed two chaired professorships in the Department of Physics and Astronomy at LSU. In his will he also left a mandate that they be used to create the Horace Hearne, Jr. Institute for Theoretical Physics.

In 2001, Jorge Pullin joined the LSU faculty as one of the Hearne Chairs and in 2004 Jonathan Dowling was also hired as a Hearne Chair. Research is on quantization of gravity and quantum science and technologies, including decoherence due to quantum gravity, non-standard optics due to quantum gravity, quantum computing, quantum imaging, and quantum sensors.

The Institute has more than 10 associate faculty in the departments of Physics and Astronomy, Math, Electrical Engineering, and Computer Science, and is supported by the original Hearne endowment, as well as grants from the National Science Foundation and the Department of Defense.

LSU Herbaria

DIRECTOR • Urbatsch
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WEB SITE • www.herbarium.lsu.edu
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Lichen & Bryophyte Herbarium

The *Lichen & Bryophyte Herbarium*, located in A257 Life Sciences Annex, is a permanent scientific collection of preserved material of more than 45,000 specimens of lichens—the largest collection of its kind in the Gulf South—and several thousand mosses and liverworts. It is the result of the work of Boyd Professor Emerita Shirley Tucker, Department of Biological Sciences. Geographical emphasis is on species native to Louisiana and the southeastern U.S. Other areas represented include the western and northern U.S., Canada, the American tropics, New Zealand, Europe, and Australia. The collection is particularly rich in tropical and subtropical crustose lichens.

The herbarium is primarily a research and teaching facility. Research programs are in progress on floristics of southeastern U.S. lichens and on ultrastructure of subtropical crustose lichens. On request, specimens are available for loan to other institutions.

Mycological Herbarium

The *Bernard Lowy Mycological Herbarium*, located in A257 Life Sciences Annex, contains the University's permanent collection of more than 25,000 preserved specimens of nonlichenized fungi from all over the world. It was collected principally by the late Dr. Bernard Lowy, an LSU mycologist and ethnobotanist of international stature. It

includes a large representative collection of Amazonian Tremellales and other Basidiomycetes, as well as an important collection of Gulf Coast wood decay fungi. The herbarium is principally a research and teaching facility, and specimens are loaned to other institutions, both domestic and foreign.

Vascular Plant Herbarium

The *Vascular Plant Herbarium*, located in A257 Life Sciences Annex, houses the permanent, scientific collection of preserved specimens of ferns, fern allies, gymnosperms, and flowering plants. Founded in 1869, it is the oldest herbarium in the Gulf South and presently comprises more than 120,000 specimens, including one of the best collections of Louisiana plants.

The collection includes dried, pressed specimens and material preserved in alcohol. Many historically important 19th and early 20th century specimens from the Louisiana Gulf Coast are included. New material is obtained through the collecting efforts of herbarium personnel, associated colleagues, amateurs, and through the exchange of duplicates with other herbaria. The goal of the herbarium is to be the premier collection of Louisiana and Gulf South plants, and a resource of international importance.

The herbarium is a reference and service facility, and is an essential resource for all research, teaching, and public service involving identification, classification, economic importance, and ecology of the plants and vegetation of Louisiana, the Gulf South, and the northern Neotropics. Numerous publications are based on the collections. Use may be arranged through Dr. Diane M. Ferguson, Collections Manager, A257D Life Sciences Annex, 225-578-8564. E-mail address: dfergul@lsu.edu.

LSU Museum of Natural Science

DIRECTOR • Sheldon
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FAX • 225-578-3075
WEB SITE • www.museum.lsu.edu

The *Museum of Natural Science*, a subunit of the *Louisiana Museum of Natural History*, consists of the Division of Zoology, located in Foster Hall, and the Division of Geoscience, located in the Howe-Russell Geoscience Complex. The exhibits in Foster Hall consist of nine major dioramas that depict with meticulous accuracy the flora and fauna of selected scenes from North America, including representatives of Louisiana's animal life. Other exhibits and visual aids explain various biological and geological principles. The museum's exhibits are free and open to the public from 8 a.m. to 4 p.m., Monday through Friday (call 578-3080 for information); closed on Saturday, Sunday, and University holidays.

The museum's *Division of Zoology* contains extensive research collections, numbering more than 500,000 cataloged specimens of birds, mammals, fishes, amphibians, reptiles, and their tissue samples. This internationally known repository of zoological material provides the basis for a program of research and serves as an important aid in teaching biological subjects.

The *Division of Geoscience* contains the most extensive archeological and geological research collections in Louisiana. The

museum's archaeological collections include more than one million lots from 1,800 sites in Louisiana and many other sites in the Gulf Coast and Caribbean regions. Ethnological collections include material from North and South America, Africa, Australia, Oceania, Asia, and the Arctic. The *H. V. Howe Type Collection* of fossil ostracoda and the *H. B. Stenzel Collection* of fossil oysters are among the best of their kind in the world.

The museum is a member of the Natural Science Collections Alliance.

E. J. OURSO COLLEGE OF BUSINESS

DEAN • Sumichrast
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TELEPHONE • 225-578-3211
FAX • 225-578-5256

Louisiana Business & Technology Center

DIRECTOR • D'Agostino
OFFICE • LSU South Campus, 8000 GSRI Rd., Building 3000, Baton Rouge, LA 70820
TELEPHONE • 225-578-7555
FAX • 225-578-3975
WEB SITE • www.bus.lsu.edu/lbtc

The *Louisiana Business & Technology Center* (LBTC) was created in 1988 as a joint venture of the University, the Greater Baton Rouge Chamber of Commerce, and the Louisiana Public Facilities Authority. LBTC is now part of the E. J. Ourso College of Business. Its purpose is to enhance economic development in the state through a job creation network. A community resource, LBTC assists new and small businesses by offering:

- management and marketing expertise;
- technology and technical assistance; and
- office space and business services.

The intent is to develop and nurture small business growth as a means of diversifying the economy.

LBTC provides space for new business start-ups in the incubator at South Campus. Companies located in the LBTC can concentrate on production and marketing, which affect success and profit. Day-to-day administrative details and overhead problems are left to the facility manager. The LBTC was named the *2005 National Business Incubator of the Year* by the National Business Incubation Association (NBIA) and the *2005 Lantern Award* winner in the State of Louisiana for its success in fostering economic development in Louisiana.

The center provides additional services to businesses through its LSU Small Business Development Center, a partnership with the U. S. Small Business Administration and the Louisiana Economic Development; its Louisiana Technology Transfer Office at NASA's Stennis Space Center in Bay St. Louis, Mississippi; and its linkage to the NASA Southeast Regional Technology Transfer Center (SERTTC). Also, financial consultants provided by the Louisiana Public Facilities Authority offer excellent resources to LBTC's clients.

LSU Small Business Development Center • A partnership with the U.S. Small Business Administration and the Louisiana

Department of Economic Development, this center serves small and new businesses in three areas: education, research, and outreach. Job creation and economic development are the main goals of the center.

Students work with entrepreneurs and small business clients to produce business plans, market studies, software programs, and accounting systems. The program provides students with real world experience and practical application of acquired knowledge.

Technology Transfer • The LBTC operates the Louisiana Technology Transfer Office at NASA's John C. Stennis Space Center (SSC) in Bay St. Louis, Mississippi, under a contract from the Louisiana Department of Economic Development. The office is a technology clearinghouse for Louisiana business and industry. Its purpose is to foster technology commercialization and economic development. Close ties were developed with the Federal Laboratory Consortium, which has a wealth of talent and technology available to businesses that can access the system.

Goals of the Technology Transfer Office are:

- to broker technical requirements of Louisiana businesses with the federal agencies;
- to establish a process for matching Louisiana businesses with Small Business Innovation Research grant requests and for assisting businesses in applying for grants;
- to foster local and state economic development by accessing the federal labs for problem solving, innovation, and technology transfer;
- to represent LSU in the Federal Laboratory Consortium and at other national and international forums; and
- to provide access for state agencies, local government, and Louisiana businesses to conduct research and develop technologies.

LBTC Mobile Classroom and Rural Entrepreneurship Program • The LBTC has a 30-seat mobile classroom that it deploys to rural Louisiana and the hurricane impacted areas of the state to offer training in entrepreneurship, business planning, marketing and disaster recovery. This program is funded by the USDA - Rural Development with assistance from the LED, LPFA, LSU Ag Center, Louisiana Municipal Association, and Capital One. The unit visits 30 locations annually offering workshops and one-on-one counseling.

Access LSU • The LBTC has established a program to be the gatekeeper for businesses needing access to LSU's wealth of talent, expertise, equipment, and technology. Business owners call the LBTC with their problems and needs and the LBTC researches the system to find and connect the proper expert with the business.

Disaster Recovery • The LBTC was established as a Small Business Disaster Recovery Center immediately after the hurricanes of 2005. The LBTC has partnered with Louisiana Economic Development and others including Shell and ExxonMobil to provide assistance to businesses and entrepreneurs in the hurricane parishes from Cameron to Calcasieu to St. Bernard and Plaquemines. The program provides one-on-one counseling as well as workshops on procurement, business recovery, and business development.

Stephenson Entrepreneurship Institute

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ASSISTANT DIRECTOR • Carter
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The *Stephenson Entrepreneurship Institute's* mission is to inspire, innovate, integrate, and implement new ways of thinking, education, and outreach to positively impact students, the regional economy, the state of Louisiana, and the nation. This multi-disciplinary, University-wide institute promotes innovative approaches to identifying needs and solving problems through an entrepreneurial view of opportunity recognition and realization.

The institute offers programs and activities such as educational seminars and workshops in an executive education format; university course work; business planning, marketing and management consultation; and venture funding assistance, to give entrepreneurs effective management tools and problem-solving skills with the primary goal of economic development and job creation in Louisiana. Available University academic course work areas include: entrepreneurship, small business management, family business management, franchising management, and independent study topics as approved.

Focus Programs

- **Executive & Entrepreneurial Education** - a certificate course that instills a new vitality and effectiveness by hosting guest speakers and lecture for mid-career level executives seeking professional development.
- **Louisiana Business & Technology Center** - develops small businesses and creates job opportunities in Louisiana through its technology incubator, consulting services, outreach programs, a Mobile Classroom, and various other commercialization and development programs.
- **Women in Business** - addresses the issues, opportunities, and challenges faced by today's female entrepreneur and consists of an annual seminar, networking sessions and directed consulting projects.
- **International Franchise Forum** - provides expertise, experience, and advice to help businesses initiate new franchising systems.
- **Family Business Forum** - offers family business owners the opportunity to gain the knowledge to successfully operate and expand their business.
- **Tiger Business Service** - a low-cost business consulting service which is provided to the Baton Rouge area for-profit and non-profit organizations using interdisciplinary consulting teams.

A generous donation by Emmet and Toni Stephenson will permit The Stephenson Entrepreneurship Institute, the Louisiana Business & Technology Center, the Small Business Development Center, the LSU System Emerging Technology Center, and

other colleges within LSU to create a more responsive environment to assist in economic development and entrepreneurship related endeavors.

Public Administration Institute

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The *Public Administration Institute* (PAI) offers the Master of Public Administration (MPA) degree to enhance career opportunities for those planning to enter public service; provide help for those currently employed in public service who want to acquire or to extend their professional knowledge; offer service to those interested in the not-for-profit sector of the economy; and offer training for those who are in the private sector or who intend to work in the private sector who will deal with the public sector. Students from a social science, liberal arts, business, or physical science background are encouraged to apply.

The curriculum consists of course work in the disciplines of finance, economics, political science, management, and statistics. The course work focuses on analytical, quantitative, and management skills needed by today's successful public or private manager. Core courses are taught by faculty in the PAI and supporting departments throughout the University. Classes are scheduled to accommodate career professionals, as well as full-time students. Challenging internships in government and non-profit agencies are available to qualified students.

Louisiana Real Estate Research Institute

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FAX • 225-578-6366
WEB SITE •
www.finance.lsu.edu/academics/finance/re

The *Louisiana Real Estate Research Institute* was established in 1985 with funding from the Ourso College of Business and the Louisiana Real Estate Commission. Its purpose is to encourage, support, and conduct applied and basic research in real estate, with particular focus on real estate and related economic activity in Louisiana. The institute has sponsored nearly 200 research projects, ranging from the analysis of nonparametric location theory to investigation of the effect on housing markets of below-market financing bond issues. An integral part of the institute's effort is to fund research grants for faculty and graduate students, as well as to provide scholarship support for students.

The institute's work is closely supported by the Louisiana Real Estate Commission Endowed Chair of Real Estate, the Latter & Blum Professorship of Business Administration, and the C. J. Brown Professorship of Real Estate. Continued funding for the institute has been provided by the Louisiana Real Estate Commission, the Ourso College of Business, the Commercial Investment Division of the

Baton Rouge Board of Realtors, and various local and state private corporations.

Stephenson Disaster Management Institute

DIRECTOR • Boin
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WEB SITE • www.bus.lsu.edu/centers/sdmi

The *Stephenson Disaster Management Institute* was formed to address the issues and challenges rapid and effective response to disasters by creating a world class organization in which engaged academic researchers, talented disaster managers, and expert advisors from the private sector collaborate to study disaster management problems, develop realistic solutions, publish smart practices, and teach improved disaster management strategies. SDMI will enhance LSU's ability to bring its existing programs and research capacity to bear on the particular problems of disasters, and will add substantial additional capacity with respect to strategic management and decision-making. SDMI will assure that LSU continues the national prominence it has recently gained, and more importantly, will assure that the nation becomes better able to respond to future catastrophes. The mission of the institute is to save the lives of people and animals by continuously improving disaster response management through research and education. It will do this by:

- Bringing business principles and research to bear on the unanswered management challenges of large, complex disasters.
- Applying, enhancing, and coordinating the unique capabilities and experience of Louisiana State University in the areas of hurricane research, disaster science, computation and technology, and counter-terrorism training.
- Building partnerships between management scholars, emergency preparedness and response practitioners, and corporations.
- Producing high quality, applied research that draws from multiple disciplines.
- Disseminating learning through meaningful executive education programs and publications for business and government managers.

SCHOOL OF THE COAST AND ENVIRONMENT

DEAN • Laws
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TELEPHONE • 225-578-6316
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Coastal Ecology Research Focus

The coastal ecology research group focuses on the wide range of ecosystems encountered in the coastal zone. The specialties include computer modeling, conservation, estuarine and wetland ecology, isotope biogeochemistry, hydrology, microbiology, wetlands, restoration, oceanography, and water quality. Researchers seek answers to problems in the shallow

continental shelf, the coastline, inshore estuaries, and wetlands that form an interface between the uplands and the open ocean. Faculty and staff have ongoing projects—mostly in Louisiana—but also in Central and South America, Asia, Europe, and elsewhere in the United States.

Major projects include studies of the biological oceanography of the northern Gulf of Mexico (including the low oxygen zones and hard bank communities); characterization, assessments, and monitoring studies; wetland loss and human impact analyses; wetland restoration efforts; and development of ecosystem models to predict and evaluate management and potential climate change effects on Louisiana's coast.

Coastal Fisheries Research Focus

The coastal fisheries research group conducts applied and fundamental research intended to provide a better understanding of relationships among man, environmental processes, and fish communities; to document the status of existing fisheries and fish populations; and to assist in providing the research foundation for the evolution of a more stable marketing system.

The objectives of this research group are to strengthen and lead marine fishery-related research (fish, mollusks, and crustaceans) and education at LSU; to develop a better understanding of the operative factors influencing fish growth, survivorship, and yield; to provide state government, public conservation agencies, and private industry with the data necessary to make sound management decisions; and to cooperate with the Louisiana Department of Wildlife and Fisheries and the National Marine Fisheries Service to assure the safe development and wise use of fishery resources in Louisiana and the Gulf of Mexico.

Research coordinates and integrates knowledge from zoology, ecology, biochemistry, oceanography, economics, modeling, and statistics to address relevant issues, such as overfishing, pollution, habitat loss, sustainability, and resource utilization disputes that threaten Louisiana's fishery resources, its rich coastal heritage, and the economic well-being of an important industry.

Wetland Biogeochemistry Research Focus

The wetland biogeochemistry research group investigates chemical and ecological interactions in marsh, mangrove, swamp, and floodplain wetlands around the world. Research topics include chemical and biological behavior of plant nutrients and toxic substances in wetlands to understand structure and function of coastal ecosystems. The environmental impacts of plant nutrients, pesticides, toxic heavy metals, and hydrocarbons in wetlands are areas of faculty expertise.

Current research includes studies on the processing of primary nutrients in coastal ecosystems (including sources and sinks), response of wetland plants to various environmental stressors such as anaerobic soil conditions and salinity, factors affecting their biodegradation of petroleum hydrocarbons and toxic synthetic organic compounds in wetlands, and physiochemical reactions of

toxic metals in soils and sediment-water systems affecting their mobility and biological activity.

Other important current research activities include comparative ecosystem ecology of wetlands and chemical, physical, and biological factors affecting coastal marsh instability, including strategies for effective wetland restoration.

Coastal Studies Institute

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FAX • 225-578-2520
WEB SITE • www.csi.lsu.edu

The *Coastal Studies Institute* is a research organization established in 1952 with major emphasis on dynamic processes in the ocean, atmosphere, and marine geology-sedimentology. CSI receives research support through competitive grants and contracts with a variety of federal agencies, including the U. S. Geological Survey, the National Science Foundation, the National Aeronautics & Space Administration, the National Oceanic & Atmospheric Administration, the U. S. Minerals Management Service, the Coastal Sciences Program of the Office of Naval Research, the Corps of Engineers, Federal Emergency Management Agency, and the Sea Grant Program, as well as a variety of state agencies and major petroleum companies.

Research is interdisciplinary, including sedimentology, marine geology and geophysics, coastal morphodynamics, hydrodynamics, dynamic meteorology, physical oceanography, air-sea interaction, and remote sensing. Field investigations have been undertaken on all continents except Antarctica, including the coast of the Arctic Ocean. A significant part of CSI research concentrates on transport processes and form-process relationships in coastal and continental-shelf environments.

The emphasis of the marine geology program is on deltaic, shelf, and slope sedimentary environments and sediment-transport mechanisms. Coastal morphodynamics focuses on bottom boundary layer and nearshore processes and coastal response to storm events. Physical oceanographic research emphasizes the dynamics of water and sediment particulates in coastal, estuarine, continental shelf and slope, and marginal ocean basin environments, including numerical modeling of such processes. The dynamic meteorology program addresses research problems in the coastal zone and marine boundary layer. Research on air-sea interaction associated with hurricanes and tropical storms is focused on improving understanding and prediction of storm track and intensity changes.

The institute houses the Earth Scan Laboratory (LSU's satellite receiving station and image processing facility), and the WAVCIS (Wave-Current-Surge Information System) program (oceanographic/meteorological real-time observing systems in the Gulf of Mexico).

Special Programs

Special Programs focuses on cooperative research programs involving several SC&E and other LSU units, other universities, and federal and state agencies. Most projects are multidisciplinary, focusing on applied problems, particularly in planning, management, and protection of coastal resources.

The majority of projects are supported with contract funds and involve the application of SC&E research results to coastal and environmental issues. Project leaders report to the dean of the SC&E and are supported by administrative staff.

Current special programs include the Coastal Marine Institute, Coastal Restoration and Enhancement through Science and Technology Program, Louisiana Geographic Information Center, and the Coastal and Environmental Modeling Laboratory.

COLLEGE OF ENGINEERING

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Center for Gas Turbine Innovations & Energy Research

DIRECTOR • Acharya
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The mission of the *Center for Gas Turbine Innovations & Energy Research* (TIER) is to bring university researchers, turbine engine companies, utilities, and industries together to pursue collaborative interdisciplinary research in the area of gas turbines and distributed energy, and to educate and prepare students for opportunities in gas turbine engine companies, utilities, and cogeneration facilities.

The center is staffed with a team of researchers primarily from the College of Engineering, with ongoing collaboration with the College of Basic Sciences, the Center for Advanced Microstructures & Devices, and the Center for Energy Studies. The various researchers have established strong programs in gas turbines and distributed energy or related areas.

Center for Rotating Machinery

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The *Center for Rotating Machinery* (CeROM), established in 2000, was created by an interdisciplinary research group led by faculty in the Department of Mechanical Engineering in close collaboration with business and industry leaders. By providing

cutting-edge technological innovations to solve complex problems in engineering systems, the center serves as an intellectual foundation to the industry with focus on long-range development.

The center fosters the development of the next generation of mechanical components, materials synthesis, and fabrication techniques, and serves the needs of the large industrial base in Louisiana and elsewhere in the nation. Current collaborations exist between researchers in the center and a number of industries as well as the Gulf South Rotating Machinery Symposium (GSRMS) Conference steering committee. Projects of note include research in the areas of tribology, materials synthesis, characterization, modeling, microfabrication, mechanical, systems, analysis, nondestructive testing, and advanced sensing technology. The center is committed to maintaining a strong partnership with industry through stimulating technological innovation; facilitating commercialization of new research and development; serving as a magnet for attracting new industries to Louisiana; hosting workshops, symposia, and advanced speciality courses for training professional engineers; and providing graduate students with real-world, relevant experience to produce a high quality workforce for Louisiana and beyond.

Hazardous Substance Research Center

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WEB SITE • www.hsrrc-ssw.org

The *Hazardous Substance Research Center/South and Southwest* (HSRC) is a five-institution consortium consisting of LSU, as the lead institution, Georgia Institute of Technology, Texas A&M, Rice University, and the University of Texas. The consortium conducts research, outreach, and technology transfer activities on critical hazardous substance problems. These investigations focus on the following three categories:

- engineering management of contaminated sediments;
- hazardous substances problems of special interest to communities within EPA Regions 4 and 6; and
- hazardous waste site remediation and management.

Louisiana Transportation Research Center

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TELEPHONE • 225-767-9131
FAX • 225-767-9108
WEB SITE • www.ltrc.lsu.edu/

The *Louisiana Transportation Research Center* (LTRC) is a cooperative research, education, and technology transfer center jointly administered by LSU and the Louisiana Department of Transportation & Development. The center was established in 1986 by the Louisiana Legislature with the goal of improving the state's transportation system through basic and applied research, education, and technology transfer. The primary focus of the center is development of nationally recognized

research and educational programs in transportation systems resulting in the implementation of more efficient design, planning, maintenance, operation, and construction practices as well as improved safety. LTRC offers courses, seminars, and training sessions designed to enhance the professional capabilities of DOTD engineers and other personnel in the transportation field. LTRC also publishes reports, brochures, and training materials. These publications are available to students in appropriate disciplines.

The LTRC Technology Transfer Center (Local Technical Assistance Program) is part of a national network dispersing the latest in transportation practices to local governing bodies by means of publications, seminars, workshops, and technical assistance.

Louisiana Water Resources Research Institute

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TELEPHONE • 225-578-6027
FAX • 225-578-5043
WEB SITE • www.lwrrr.lsu.edu

The *Louisiana Water Resources Research Institute* funds research concerned with water resources problems and the enhancement of Louisiana's water resources, while simultaneously training engineers and scientists to address future problems. Located on the LSU campus, research may be conducted by faculty from universities and colleges statewide. Research topics range from resource management (including flooding and water supply) to water quality (including wastewater treatment and aquifer restoration).

MANSHIP SCHOOL OF MASS COMMUNICATION

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Reilly Center for Media & Public Affairs

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FAX • 225-578-2125
WEB SITE • www.lsu.edu/reillycenter

The *Reilly Center for Media & Public Affairs*, launched in 2000, is the focus of numerous projects and activities aimed at elevating the quality of civic discourse. The center is housed in the Manship School of Mass Communication, but collaborates with other academic units.

The center supports cutting-edge scholarship and research on all aspects of media and politics. Topics range over a wide variety of issues, including news coverage of government and business, the impact of technology on foreign news coverage, the role of advocacy groups in reaching the electorate, public opinion analysis, and constituent building by public and private entities.

The center has a number of venues for making its research public and useful. It

cooperates with LSU Press to publish an ongoing series of books. It also supports symposia, conferences, and a public policy fellows program for the discussion of mass communication and public affairs issues. The John Breau Symposium is held annually, bringing in outstanding scholars, journalists, public officials, and business and civic leaders. Symposia focus on state and national issues of pressing contemporary importance. Symposia are often published as reports and distributed nationally. The center co-manages LSU's Public Policy Research Lab, and conducts the annual Louisiana Survey.

No degree is offered, but the center is tied to the PhD program in mass communication and public affairs, which offers fellowships to support doctoral candidates who assist faculty and the center with research. Work in the center provides valuable experience for students, thereby enhancing the quality of their education. The center also brings in visiting scholars to collaborate on projects and work with students.

The center's public service arm directly assists media companies, industry, government, and nonprofit agencies by focusing the expertise of superior scholars on practical problems. Projects may include opinion surveys, communication plans, media training, and other special projects.

OTHER RESEARCH PARTNERSHIPS

LSU AGRICULTURAL CENTER

WEB SITE • www.lsuagcenter.com

As the research arm of the *LSU Agricultural Center*, the *Louisiana Agricultural Experiment Station* is a major partner in graduate education and research. Research in the major soil, climate, and agricultural production areas is conducted in campus departments and in research stations located throughout the state. Many Agricultural Experiment Station faculty hold joint teaching and research appointments in the Colleges of Agriculture, Arts & Sciences, and Basic Sciences, and the School of Veterinary Medicine. In addition, the Experiment Station provides a large number of graduate assistantships, and laboratories, equipment, and facilities of the station are made available to graduate students.

ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES (ARCUS)

WEB SITE • www.arcus.org

The mission of ARCUS is to strengthen and advance arctic research to meet national needs. ARCUS consists of institutions organized and operated for educational, professional, or scientific purposes. An institution is considered eligible for membership in ARCUS if it has made a definitive, substantial, and continuing commitment to a coherent research program or course of studies leading to degrees in one or more of the disciplines associated with arctic research or related fields. These institutions have a common purpose of advancing science,

promoting the application of their knowledge to national problems, and attacking in concert those scientific and technological questions that require the collaborative skills and resources of scientists, engineers, and others throughout the nation and world. For more information contact LSU Consortium Representative Dr. H. Jesse Walker at 225-578-6130.

AUDUBON CENTER FOR RESEARCH OF ENDANGERED SPECIES

DIRECTOR • Dresser
TELEPHONE • 504-581-4629
WEB SITE • www.auduboninstitute.org

The *Audubon Center for Research of Endangered Species* (ACRES), opened in 1996, is an ambitious and innovative initiative in species conservation. Located in New Orleans, ACRES includes a 36,000 square-foot facility designed to house scientists whose research programs include studies in reproductive physiology, endocrinology, genetics, embryo transfer, and the expansion of a "frozen zoo" to assure the future of endangered species through the banking of genetic materials.

The alliances between LSU and ACRES (joint programming, data pooling, collaborative research, and cooperative funding) enables interdisciplinary field-and-lab teams to conduct far-reaching research programs which range in scope from regional to international.

The knowledge gained through collaborative research between LSU and ACRES will help scientists and conservationists cope with threats to the most seriously endangered species by developing new reproductive technologies and reintroduction techniques necessary to ensure their long-term survival.

LOUISIANA UNIVERSITIES MARINE CONSORTIUM

DIRECTOR • Dagg
TELEPHONE • 985-581-2800
WEB SITE • www.lumcon.edu

Louisiana Universities Marine Consortium (LUMCON) was formed in 1979 to coordinate and stimulate Louisiana's activities in marine research and education. LUMCON provides coastal laboratory facilities to Louisiana universities and conducts research and educational programs in the marine sciences.

LUMCON's primary facilities are located at the DeFelice Marine Center in Cocodrie, approximately 85 miles southwest of New Orleans. This location, situated within the estuarine wetland complex of the Mississippi River delta plain between the Atchafalaya and Mississippi Rivers, provides ready access to the most productive estuaries in the U.S., to a variety of coastal environments, and to the open Gulf of Mexico.

LUMCON is governed by a six-member Executive Board comprised of chief executive officers of LSU, Nicholls State University, and the University of Louisiana at Lafayette. This board reports to the Louisiana Board of Regents. For more information about LUMCON visit their Web site at www.lumcon.edu.

OAK RIDGE ASSOCIATED UNIVERSITIES

WEB SITE • www.orau.org

Since 1946, students and faculty of LSU have benefitted from LSU's membership in the Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 85 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship scholarship, and research appointments; and to organize research alliances among its members.

Through the *Oak Ridge Institute for Science and Education* (ORISE)—the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointments and program lengths range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the *ORISE Catalog of Education and Training Programs*, which is available on the ORAU Web site, or by calling either of the contacts listed below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research, and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact Monnie E. Champion, ORAU Corporate Secretary, 865-576-3306; or visit the ORAU home page: www.orau.org.

ORGANIZATION FOR TROPICAL STUDIES

WEB SITE • www.ots.duke.edu

The *Organization for Tropical Studies* (OTS) is a nonprofit, scientific, academic consortium whose mission is to provide leadership in tropical biology by promoting education, research, and the wise use of natural resources in the tropics. Founded in 1963, OTS is now composed of 64 premier universities and institutions throughout the world, including LSU. Graduate students at LSU are eligible to participate in the renowned field courses in tropical biology in Brazil, Costa Rica, and Peru and to apply for tropical research

fellowships through OTS. Undergraduate biology majors are eligible for the *OTS Semester Abroad*, an integrated program of environmental sciences and Latin American culture.

OTS offices are located at Duke University in the USA and in San Jose in Costa Rica. Three field stations in Costa Rica are located in tropical rain forest (La Selva), tropical dry forest (Palo Verde), and tropical montane forest (Las Cruces) environments. La Selva Biological Station, OTS's flagship facility, is a modern biological research laboratory in the midst of a 3,000-acre lowland rain forest preserve. OTS provides logistical support and offers the use of equipment and field stations for field research in tropical biology. Funds are available through OTS for qualified graduate students to initiate research projects.

Additional information regarding the program and course application forms are available from Dr. Bruce Williamson, Department of Biological Sciences, LSU, 508 Life Sciences Building and at btwill@lsu.edu; or from the Organization for Tropical Studies, North American Office, P.O. Box 90630, Durham, North Carolina 27708 and at www.ots.duke.edu.

PENNINGTON BIOMEDICAL RESEARCH CENTER

EXECUTIVE DIRECTOR • Bouchard
OFFICE • 6400 Perkins Road
TELEPHONE • 225-763-2500
FAX • 225-763-2525
WEB SITE • www.pbrc.edu

The *Pennington Biomedical Research Center (PBRC)* conducts research in nutrition and preventive medicine. Many of its full-time scientists hold adjunct appointments at various LSU campuses. Similarly, several faculty at LSU A&M, LSU Ag Center, and LSU Health Science Center in New Orleans and at teaching hospitals hold adjunct appointments at the PBRC.

The PBRC has six major research divisions: Functional Foods, Experimental Obesity, Clinical Obesity and Metabolic Syndrome, Nutrition and Chronic Disease, Health and Performance Enhancement, and Nutrition and the Brain. Within these divisions, basic and clinical research focuses on neurobiology, lipoprotein and insulin metabolism, energy metabolism, adipose tissue metabolism,

skeletal muscle biology, molecular biology, nutrient sensing, genomics, gene expression studies, stem cell biology, proteomics, bioinformatics, transgenics, nutritional epidemiology, physical activity and health, clinical psychology, clinical trials, biostatistics, and others. The research units of the center have been consolidated into 49 laboratories that are supported by 19 core facilities.