From the Chairman and President

INNOVATION BRINGS ABOUT REVOLUTIONARY CHANGE—in the way we think, the collaborations we identify, the solutions we find, and the lessons we teach. The Biomedical Research Foundation is committed to creating a culture of innovation—a whole new way of doing things with visionary goals and a relentless attitude toward growth.

The 2008 Biomedical Research Foundation Annual Report highlights how this new culture of innovation has enriched lives since 1994 by showcasing recent research, partnership and education efforts such as:

- Chris Kevil’s research and its potential to improve the lives of individuals suffering from Peripheral Artery Disease, PAD;
- James Patterson’s partnerships with Avid Radiopharmaceuticals and Eli Lilly and their potential for improving the way we treat and diagnose Alzheimer’s Disease; and
- the Foundation’s educational programs and how they are fostering students who garner international recognition for their innovative ideas.

The Biomedical Research Foundation is proud of the part we have played in facilitating the research, partnerships and educational programs that have encouraged innovation and enriched lives throughout northwest Louisiana. These accomplishments reflect the strength of our relationships with you, our valued partners, friends and supporters.
The ability to take an idea, develop it, and produce a functional product is the key to knowledge-to-product transfer. This process is the engine that ignites biomedical innovation and the cornerstone of the Biomedical Research Foundation.

Identifying cross-sector collaborations between significant scientific findings and technological industry advances has been the job of the Biomedical Research Foundation from the beginning. These partnerships often yield extraordinary dividends for improved global health and measurable economic development.

Opening doors for the next generation, increasing awareness and growing our own world class students—these objectives form the basis for the commitment of the Biomedical Research Foundation to STEM (Science, Technology, Engineering and Math) educational programs throughout northwest Louisiana.
is working to enrich lives Through RESEARCH on an exciting new treatment that will improve the lives of individuals suffering from Peripheral Artery Disease, PAD, a condition that restricts blood flow to the extremities and is commonly found in people with diabetes, coronary artery disease and hypertension. A recent breakthrough in Dr. Kevil’s search for a drug to effectively treat PAD could bring an end to common symptoms such as leg pain, changes in skin color, sores or ulcers, difficulty walking—even gangrene and the loss of a limb.

Dr. Kevil is a Shreveport native, a graduate of Captain Shreve High School in Shreveport, Northwestern State University and a molecular and cellular physiology doctoral graduate of LSUHSC-S. He returned to Shreveport in 2002 after postdoctoral training at the University of Alabama in Birmingham. “I came back to LSUHSC-S because of the entrepreneurial environment that the BRF has helped to create for LSUHSC-S researchers with Dr. Tony Giordano and because of the tight knit research environment—it’s collaborative and collegial,” said Kevil. “The BRF helped move my research forward by providing seed money and financial assistance and by supporting my efforts with the filing of a patent for my research.”
Dr. James Patterson is working to enrich lives through partnerships with Avid Radiopharmaceuticals and Eli Lilly in clinical trials to treat and diagnose Alzheimer’s Disease. Avid is testing a new way to diagnose Alzheimer’s using a new PET radiotracer manufactured at the BRF PET Imaging Center. Eli Lilly is in partnership with Dr. Patterson and the BRF PET Center to test a new drug to treat Alzheimer’s.

Functional brain imaging is the technology at the center of Dr. Patterson’s study of Alzheimer’s. He came to LSUHSC-S because of the highly qualified PET staff and the proprietary isotope manufacturing generated at the BRF PET Imaging Center. “PET imaging offers great promise for early detection of Alzheimer’s, and, if detected early, I believe that we can slow and possibly reverse the effects of this terrible disease,” said Patterson.
The Biomedical Research Foundation has initiated seven educational programs that are helping to shift students’ and faculty members’ approach to learning and teaching through the use of hands-on experiences. An eighth educational initiative will launch in August, 2009—The BioStart Internship Program. All eight programs are designed to nurture the creation, accumulation and application of knowledge, especially in the areas of science, technology, engineering and math.

The goal of one program, SMART, is to grow our own top-flight scientists who propel northwest Louisiana into the national and international arena. SMART is in its twelfth year with 110 high school seniors having worked in laboratory settings alongside LSUHSC-S scientists since 1997. Chris Yu, a 2004 SMART student from Caddo Magnet High School, now a biomedical engineering graduate student at Johns Hopkins University, was profiled in the New York Times as part of a research team charged with developing an innovative way to deliver a vaccine against rotavirus to children. “My biomedical education started with the SMART Program—learning how research is conducted and the process behind it,” said Yu. “Our team at Johns Hopkins had the idea to put the medicine on strips like breath fresheners so it could be easily transported and given to a child. Now we’re awaiting a patent.”
The Biomedical Research Foundation (BRF) has helped to facilitate the investment of over $57 million in venture capital funds for technology start-up companies in the InterTech Science Park and other science parks in Louisiana.

- Fourteen companies and institutions occupy eight facilities owned and operated by the BRF in the InterTech Science Park.
- These 14 companies employ 307 people with an average annual salary of over $50,000 compared to the average per capita Shreveport-Bossier salary of $27,000.
- The annual payroll of the 14 companies is $16 million.

The BRF itself employs 50 personnel and holds land, buildings and equipment worth $100 million.

The BRF has provided approximately $15 million to support LSU Health Sciences Center at Shreveport (LSUHSC-S) scientists, programs, and facilities through a variety of activities.

The average annual extramural support at LSUHSC-S has tripled from $5M to over $16M during the time period of the BRF’s investments.

In 1995 The BRF launched one of the nation’s pioneer Positron Emission Tomography (PET) Imaging Centers. Our PET Centers are among the busiest in the world, having completed over 27,000 scans that have helped physicians diagnose and treat such diseases as cancer and Alzheimer’s.

The BRF has initiated and sustained seven educational programs to build a technology-trained workforce including:

- Higher Education Programs
  - CERT — Consortium for Education Research and Technology
  - BIOTECHNOLOGY ENTREPRENEURSHIP SEMINAR SERIES

- K-12 Programs
  - SMART — Science and Medicine Academic Research Training Program
  - MST — Math, Science and Technology K-12 Initiative
  - EAST — Environmental & Spatial Technology Laboratory
  - FIRST — For Inspiration and Recognition of Science & Technology Robotics Program
  - BIOTECHNOLOGY MAGNET ACADEMY

An 8th educational initiative will launch in August, 2009 — THE BIOSTART INTERNSHIP PROGRAM.
InterTech Science Park

- Fostered the growth through recruitment, planning, financial and market strategy incubator services of 14 InterTech Science Park companies (up from 11 companies in 2007).

  **THE NEWEST COMPANIES RECRUITED INCLUDE:**
  - CaloSyn Pharma
  - Intelek, LLC
  - Preferred Data Solutions

- Continued managing over $600,000 in grants from the Environmental Protection Agency for the environmental cleanup of the former Wilson Foods, Modern Iron Works, Sproull, and Caddo Parish Health Center properties located in InterTech.

- Leased the Center for Biomedical Technology to the University of Louisiana at Monroe College of Pharmacy for students completing their clinical training at LSUHSC-S.

- Remarked the Biomanufacturing Facility in the InterTech Science Park nationally and internationally at conferences and with brokers.

Science and Technology Education

- Maintained support of Caddo Parish Schools’ Math, Science and Technology K-12 initiative (MST) which includes 130 teachers and approximately 5,000 students in grades K-12.

- Participated in the planning of the MST Biotechnology Magnet Academy which now has 66 freshmen, sophomores, and juniors at Southwood High School.

  - The BRF raised $100,000 to purchase advanced instrumentation for the microbiology/genetics and molecular/cellular biology laboratories.

  - The Foundation also raised funds to purchase laptop computers for the Biotechnology Magnet Academy students.

- In 2008, the BRF began raising funds and planning the implementation of the BioStart Internship program for seniors in the Biotechnology Magnet Academy to be launched in 2009.

- Sponsored the Science and Medicine Academic Research Training Program (SMART) program at LSUHSC-S.

  - In 2008, two students were semifinalists in the Intel Foundation Talent Search; four students were semifinalists in the Siemens-Westinghouse Science Competition; two students qualified for the International Science and Engineering Fair; and one student qualified for the National Junior Science and Humanities Symposium.
CONSOLIDATED STATEMENTS OF ACTIVITY YEARS ENDED DECEMBER 31, 2008 AND 2007

SUPPORT AND REVENUE 2008 2007
Philanthropic Support $ 559,432 347,151
REVENUE:
  Rental income 4,072,861 4,033,045
  Local government operating grant 2,250,000 2,167,200
  Grants and contracts 1,365,727 3,884,576
  Investment income (loss) (1,765,811) 687,844
  Positron Emission Tomography (PET) 6,822,772 6,275,374
Total support and revenue $ 13,304,981 $ 17,395,190

EXPENSES
PROGRAM SERVICES:
  Scientific Research Initiatives — Grants to LSU Health Sciences Center at Shreveport and resources expended in support of research projects conducted by the Foundation's own personnel, other scientists, or in collaboration with other organizations/universities. Operating expenses for research facilities in the Virginia K. Shehee Biomedical Research Institute which are leased to the Louisiana State University Health Sciences Center at Shreveport.
  Positron Emission Tomography — Operating expenses to provide diagnostic imaging services and related radio-pharmaceutical production.
  Science Park Development Initiatives — Resources expended to develop InterTech Science Park.
Other Sponsored Projects 1,140,366 708,113
Total program services $ 13,583,229 $ 13,031,892
SUPPORT SERVICES:
  Management and general 1,461,923 1,343,374
  Fundraising 201,184 195,114
Total expenses $ 15,246,336 14,570,380

CHANGE IN NET ASSETS (1,941,355) 2,824,810
Net assets, beginning of year 46,174,681 43,349,871
Net assets, end of year $ 44,233,326 $ 46,174,681

THE FOUNDATION DOLLAR
PROGRAM SERVICES FOR THE YEAR 2008 EXPENDITURES FOR THE YEAR 2008
POSITRON EMISSION TOMOGRAPHY 41% PROGRAM SERVICES 89%
SCIENCE PARK DEVELOPMENT INITIATIVES 25% MANAGEMENT AND GENERAL 10%
SCIENTIFIC RESEARCH INITIATIVES 26% FUNDRAISING 1%
OTHER SPONSORED PROJECTS 8%
TO PIONEER a knowledge-based regional economy by cultivating and attracting life science enterprises and related technologies.