

Curriculum Vitae

JEROME A. GILBERT

Office of the President
Marshall University
One John Marshall Drive, 216 Old Main
Huntington, WV 25755

Residence:
1040 13th Avenue
Huntington, WV 25701

Telephone: (304) 696-3977
E-mail: gilbert@marshall.edu

Telephone: (662) 769-1021

EDUCATION:

Ph.D.	<i>Biomedical Engineering</i> Duke University Durham, North Carolina	1977-1982
B.S.	<i>Biological Engineering</i> Mississippi State University Mississippi State, Mississippi	1973-1977

EMPLOYMENT HISTORY:

<i>President</i> Marshall University	Jan 2016 – present
<i>Provost and Executive Vice President</i> Mississippi State University	Mar 2010 – Dec 2015
<i>Interim Dean of the Bagley College of Engineering</i> (while also serving as Provost and EVP) Mississippi State University	April 2013 – June 2013
<i>Associate Provost and Associate Vice President for Academic Affairs</i> Mississippi State University	Jan 2004 – Mar 2010
<i>Research Affiliate</i> Institute for Imaging and Analytical Technologies (formerly Institute of Neurocognitive Science and Technology) Mississippi State University	2005 – 2010
<i>Coordinator</i> Biomedical Engineering Graduate Program College of Engineering Mississippi State University	Feb 2001- Dec 2003

<i>Department Head</i> Agricultural and Biological Engineering Mississippi State University	July 1996- Dec 2003
<i>Interim Department Head</i> Agricultural and Biological Engineering Mississippi State University	July 1995- June 1996
<i>Professor of Biological Engineering</i> Mississippi State University	1993-present
<i>Associate Professor of Biological Engineering</i> Mississippi State University	1988-1993
<i>Adjunct Appointment in Veterinary Medicine</i> College of Veterinary Medicine Mississippi State University	1988-2010
<i>Clinical Assistant Professor of Orthopaedic Surgery (Adjunct)</i> University of Mississippi Medical Center Jackson, MS	1989-2005
<i>Assistant Professor of Orthopaedic Surgery</i> University of North Carolina School of Medicine Chapel Hill, North Carolina	1983-1988
<i>Member of the Graduate Faculty</i> Biomedical Engineering Curriculum University of North Carolina Chapel Hill, North Carolina	1984-1988
<i>Visiting Assistant Professor of Mechanical Engineering</i> North Carolina State University Raleigh, North Carolina	1982-1983
<i>National Institutes of Health Research Trainee</i> Department of Biomedical Engineering Duke University Durham, North Carolina	1979-1982

ADMINISTRATIVE EXPERIENCE:

Provost and Executive Vice President, MSU, March 2010 – Dec 2015

As chief academic officer, I oversaw all of the academic programs and ensured their quality and integrity, as well as provided oversight of academic and support units including the Graduate School, the Library, Academic Outreach and Continuing Education, the Shackouls Honors College, the Office of the Registrar, Information Technology Services, the Career Center, the University Academic Advising Center, Athletic Academic Advising, Developmental Programs,

the Center for Teaching and Learning, and Admissions and Scholarship, including Enrollment (this was added in the fall of 2014).

Responsibilities included setting standards of achievement for the academic programs, administrative and faculty recruitment, tenure and promotion decisions, initiative development for curricular and co-curricular programs, strategic planning for the university, oversight of master planning for the university, cooperation with the with the IHL Board of Trustees; interfacing with the Faculty Senate in matters relating to faculty governance, participation in fiscal and budgetary planning for the university; setting enrollment goals; and developing scholarship programs.

Unique accomplishments included: hired five new deans; set the vision for a new 90,000 square foot classroom building with construction to start in the spring of 2014; leadership in the development of a new five-year Strategic Plan for the university, State of Excellence; advocacy for creating 28 new faculty positions in a period of economic downturn (21 tenure-track positions and 7 instructors); helped to create two new programs for retention: an Early Start summer program before the freshman year for advanced students and a Math Plus program in the summer before the freshman year for academically challenged students; vision in helping create an International Institute to combine all our international initiatives under a single unit (in support of our international outreach, I traveled with other vice presidents to Italy, Korea, China, the United Kingdom, India, and Morocco); continued support for our freshman reading program, the Maroon Edition, by advocating the need for enhanced intellectual engagement on campus; developed a three-year salary compression plan to raise the salaries of all full professors on campus closer to our peer average (starting in 2013); created a Work-Life Balance Committee (reporting to the Provost) to address quality of life issues of staff and faculty; helped secure a \$11M donation from the Riley Foundation of Meridian, MS to start a Kinesiology program at our Meridian branch campus; helped develop a new engineering campus on the Mississippi coast in cooperation with Mississippi Gulf Coast Community College; assisted in creating dual enrollment programs in Jackson, MS and Starkville, MS; worked with the College of Engineering to form a collaborative relationship with the Université Internationale de Rabat for joint engineering degrees; and created a comprehensive program for student retention in 2014.

As Executive Vice President, I assisted the President in the overall management of the university. Human Resources Management reported to my Office.

Associate Provost and Associate Vice President of Academic Affairs, 2004 – Feb 2010

Assisted the Provost whenever was necessary in carrying out the academic mission of the university and, when requested, acted on behalf of the Provost when he was unavailable.

Participated in the review of P&T applications; chaired the Associate Deans Council; managed the summer school budget; managed MSU's participation in the Academic Common Market of the Southern Regional Educational Board; served as MSU's SACS liaison; served on the Board of Trustees of the Cooperative Center for Study Abroad (served as co-director on a two-week London program, Dec. 2005); coordinated New Faculty Orientation; assisted in the development of an intervention program for suspended students, the Learning Skills Support Program; created a three-week pre-summer school term, Maymester, in 2007; led the efforts to create a common reading program, the Maroon Edition, for incoming freshmen in 2009.

Dept Head (Interim 1995/96) and Professor, Agricultural and Biological Engineering, 1995-2003

Administered a comprehensive engineering department with academic, research, and extension responsibilities (the state appropriated budget for the department was \$1.1M, and the annual

extramural research expenditures were \$1.7M); initiated the effort which resulted in the establishment of M.S. and Ph.D. degree programs in Biomedical Engineering at Mississippi State University in 2001; managed the Division of Agriculture's Biomass-based Energy Research program, starting in 2001 with a joint project with Oklahoma State University; led the faculty in planning for a new 50,000 square-foot building for the department (the building was completed in 2005).

Professor of Agricultural and Biological Engineering, Mississippi State University, 1993-1995

Served as academic coordinator of a program to recruit minority high school students in Mississippi to consider careers in the health care profession: "Health Science Enrichment Program." Sept. 30, 1993 through Sept. 29, 1995. U.S. Dept. of Health and Human Services.

BOARD SERVICE:

Member of the Board of Trustees of the Cooperative Center for Study Abroad, 2004-2007.

Member of the Board of Directors of the University Press of Mississippi, June 2012-present.

Member of the Board of Directors of the Association of Chief Academic Officers, 3-9-14 to 2016.

Member of the Board of Directors, Mississippi State University Educational Building Corporation, 2010 – present. (Second Vice President, 2014-present).

Member of the Executive Committee of the Council of Academic Affairs of APLU, 2015 to present.

AWARDS AND HONORS:

- 1976 Tau Beta Pi, Engineering Honor Society
- 1976 Phi Kappa Phi, Scholastic Honor Society
- 1976 ODK, Leadership Honor Society
- 1976 Engineering Hall of Fame, Miss. State Univ.
- 1977 Mississippi State University Hall of Fame
- 1980-1981 Duke University Graduate School Research Grant
- 1989-1990 Hearin-Hess Distinguished Professor of Engineering, MSU
- 1992 Outstanding Young Men of America
- 1992-1993 Hearin-Hess Distinguished Professor of Engineering, MSU
- 1993-1994 Hearin-Hess Distinguished Professor of Engineering, MSU
- 1994-1995 Hearin-Hess Distinguished Professor of Engineering, MSU
- 2006 Inducted in the first class of MSU Honors Faculty, Shackouls Honors College
- 2007 Inducted into the College of Fellows of the American Institute for Medical and Biological Engineering
- 2008 Inducted in the inaugural class of Fellows of the Institute of Biological Engineering

PROFESSIONAL SOCIETIES:

American Institute of Medical and Biological Engineering, FELLOW
American Society of Agricultural and Biological Engineers, Member
American Society of Engineering Education, Member
American Society of Mechanical Engineers, Member
Biomedical Engineering Society, Member
Institute of Biological Engineering, Charter Member, National President 2005, FELLOW
Sigma Xi, Member

PROFESSIONAL DEVELOPMENT:

Department Heads Enhancement and Enrichment Program. PRO-MISS Institute of Leadership, Mississippi State University, Fall 1996.

Teaching and Learning in Undergraduate Education: A Leadership Summit. Board on Agriculture and Natural Resources, The National Academies, Washington D.C., October 3-5, 2006.

FEMA Training. Successfully completed IS-00100 Introduction to the Incident Command System, IS-00200 ICS for Single Resources and Initial Action Incidents, IS-00700 National Incident Management System, and IS-00800 National Response Plan. December 18-19, 2007.

American Council for Education Institute for New Chief Academic Officers, 2012-2013.

PROFESSIONAL SERVICE:

Member, Board of Editors: Physical Therapy in Health Care, 1984-1992.

Member, Membership Committee, Biomedical Engineering Society, 1989 -1991.

Member, Board of Directors, Southern Biomedical Engineering Conference, 1989-2003.

Member, NASA Site Visit Team for Evaluation of Possible ESCORT in Gravitational Biology, Rice Univ., Aug. 16-18, 1990 (Coordinated by American Institute of Biological Sciences)

Consultant, Mississippi Department of Human Services' START (Success Through Assistive/Rehabilitative Technology) Program, 1990 - 1991.

Department Coordinator, Univ. Familiarization Program for Minorities in Engr.; summer, 1991.

Vice Chairman for Career Development, Mississippi Section of the American Society of Agricultural Engineers, 1991-1993.

Member, NSF Review Panel for the Biomedical Engineering and Research Aiding Persons with Disabilities Program (reviewed proposals in the area of biomechanics and rehabilitation), Washington D.C., May 12, 1994.

Reviewer, NSF Program: Biomedical Engineering and Research Aiding Persons with Disabilities. Reviewed several grants per year. 1994 - 1998.

Member, ASAE Committee P-210 Academic Program Administrators, 1995 - 2004.

Secretary and Chair-Elect, ASAE Committee P-210 Academic Program Administrators, 2003 to 2004.

Facilitator for Mississippi Agromedicine Pre-Summit (to develop plans for a statewide Agromedicine program), held November 7, 2003 in Jackson, MS.

University Liaison to the Southern Association of Schools and Colleges (SACS), 2004 to 2010.

National President of the Institute for Biological Engineering. 2005. Served as President-Elect in 2004 and Past President in 2006. As president, developed a national Bioethics Essay Contest, facilitated the cooperation with other societies with interests in biological engineering. Served as co-chair of the Membership Committee, 2006.

Academic Assembly Delegate to the College Board, representing MSU, 2008 to present.

University Liaison to the Academic Leadership Development Program (ALDP) of the Southeastern Conference Academic Consortium, 2009 to 2010.

Member of the 2010B Cluster 6 Off-Site Committee for the Commission on Colleges of the Southern Association of Colleges and Schools. Reviewed three four-year institutions for reaffirmation of regional accreditation. 2009. (Final meeting in Atlanta, Nov. 2-3, 2009)

Member of the 2013B Cluster 9 Off-Site Review Committee for the Commission on Colleges of the Southern Association of Colleges and Schools. Reviewed three four-year institutions for reaffirmation of regional accreditation in November of 2012.

Member of an On-Site Reaffirmation Committee for the Commission on Colleges of the Southern Association of Colleges and Schools. Visited and reviewed the University of South Alabama for reaffirmation of regional accreditation in April of 2013.

Member of the 2014B Cluster 13 Off-Site Review Committee for the Commission on Colleges of the Southern Association of Colleges and Schools. Reviewed three four-year institutions for reaffirmation of regional accreditation in November of 2013.

Member of an On-Site Reaffirmation Committee for the Commission on Colleges of the Southern Association of Colleges and Schools. Will visit and review the University of Tennessee at Knoxville for reaffirmation of regional accreditation in April of 2015.

GRANTS AND CONTRACTS FUNDED AND SUBMITTED:

Medical Faculty Research Grant, University of North Carolina, "The Effects of Electrical Stimulation of Intracellular Contractile Proteins and Collagen Production in Ligamentous Fibroblasts," \$2,000, Feb. 1, 1984 through Jan. 31, 1985; P.I.

Whitaker Foundation, Camp Hill, Pennsylvania, "The Effect of Fixation Stiffness on Fracture Healing," \$94,812.00, July 1, 1984, through June 30, 1987; P.I.

Orthopaedic Research and Education Foundation Grant, "An Investigation of Ligament Contractility", \$70,000.00, January 1, 1986 through December 31, 1987; Co-P.I. (P.I. Dr. Laurence Dahners)

Medical Faculty Research Grant, University of North Carolina, "Osteopenia and Bone Plating: An In vivo Canine Study," \$2,879.00, October 9, 1987 through September 30, 1988; P.I.

Injury Prevention Research Grant, "An Evaluation of a Method for the Surgical Repair of Ruptures of the Anterior Cruciate Ligament," \$2,508.00, January 1, 1988 through June 30, 1988; Co-P.I.

Ben Franklin Technology Center (Pittsburgh) "Flexible Biocompatible Materials to Culture Cells in a Mechanically Active Environment," \$204,500, September 1, 1989 through August 31, 1991; Co-P.I. (P.I. Dr. Albert Banes)

NSF, Biomedical Engineering Undergraduate Design Projects, "Engineering Aids to the Disabled at Mississippi State University." \$21,891, August 1, 1991 through January 31, 1997; P.I. (Supplement of \$4,291 to original award of \$17,600 was made on 3-3-95).

USDA CRIS Project, "The Development of Farm Animals as Models for Biomedical Research of Human Musculoskeletal Problems." \$74,000, March 1, 1992 through February 28, 1997; P.I.

NIH, "Sheep as a Model for Aged Human Bone: An Ovariectomy Model." \$107,596, May 1, 1992 through April 30, 1995; P.I.

U.S. Dept. of Health and Human Services, "Health Science Enrichment Program." \$210,685, Sept. 30, 1993 through Sept. 29, 1995; Coordinator of Academic Prog. (P.I. Dr. Bill Smith)

NIDR, "Effect of Ovariectomy on the Periodontium." \$47,757, Sept. 1, 1994 through August 31, 1996; Co-Investigator. (P.I. Dr. Roger Johnson)

SIMS Deltec, Inc., "In Vivo Evaluation of Spire Argent Coated Ventra Catheters." \$34,356, Sept. 1, 1994 through Jan. 31, 1995; P.I.

NSF, "Dissertation Enhancement in Japan: Fabrication and Characterization of a Lipid-Attracting Elastomeric Semi-IPN for Use in Physiologic Bearing Applications." (for Ph.D. candidate Phil Williams) \$9,100. July 1, 1995 through December 31, 1995; P.I.

SIMS Deltec, Inc., "Catheter Implant Using Carbothane PC-3575A-B20 and Tecothane TT-2074A-B20 Materials." \$82,333. June 1, 1995 through September 30, 1996; P.I.

USDA, "Mississippi AgrAbility Project." \$84,721. April 1, 1997 through March 31, 1998; Co-Investigator. (P.I. M. Herbert Willcutt)

NSF, "Engineering Aids to Persons with Disabilities at Mississippi State University." \$61,816. October 1, 1997 through September 30, 2002; Co-Investigator. (P.I. Dr. Gary McFadyen)

NASA / Johnson Space Center., "Monitoring 10 Micron Sized Bubbles in Model Muscle/Ligament Tissue." \$30,000. January 1, 1998 through December 31, 1998; P.I.

SIMS Deltec, Inc., “PUR Connector Implant Study.” \$49,186. October 15, 1998 through November 15, 1999; P.I.

SIMS Deltec, Inc., “ECTE Molded Implant Study.” \$23,975. October 15, 1998 through June 15, 1999, P.I.

USDA Subcontract from Oklahoma State Univ. “Biomass-based Energy Research” \$399,666. July 2001 to June 2003. P.I.

Whitaker Foundation., “Influence of the Mechanical Environment on Chondrocyte Differentiation” \$209,776. July 2001 to June 2004. Consultant. (P.I. Dr. Steven H. Elder)

NIH, “Osteoblastic Response to Strain at the Implant-Tissue Interface.” \$139,868. August 15, 2002 to August 14, 2004. Consultant (P.I. Dr. Joel Bumgardner)

USDA Subcontract from Oklahoma State Univ. “Biomass-based Energy Research: Phase 2” \$425,343. July 2002 to June 2004. P.I.

USDA Subcontract from Oklahoma State Univ. “Biomass-based Energy Research: Phase 3” \$505,924. July 2003 to June 2005. P.I. (turned over direction of the project to Eugene Columbus in January of 2004)

NSF ADVANCE Program, “20/20 by 2020: Creating Women Leaders with Clear Vision for Today and Tomorrow.” \$3,766,863. July 2008 to June 2013. Senior Associate. (Unfunded).

COMMITTEE AND UNIVERSITY SERVICE:

Orthopaedics Master of Science Planning Committee, University of North Carolina, 1986-1988, Chairman.

Gerontology Council, Mississippi State University, 1989 to 2004, Member.

Membership Committee of the Biomedical Engineering Society, 1989 to 1991, Member.

Department Head Search Committee for Agricultural and Biological Engineering, Mississippi State University, 1989-1990, Member.

Premedical Advisory Committee, Mississippi State University, 1990-2003, Member.

Nomination Committee for Sigma Xi, Mississippi State University, 1990 to 1992, Chair 1991-92.

Committee to Establish Course Requirements for Graduate Students without a B.S. Engineering Degree, Agricultural and Biological Engineering, Mississippi State University, 1990, Member.

Committee on Minority/Women Recruitment, College of Engineering, Mississippi State University, 2-91 to 9-91, Chairman.

Academic Committee for the College of Engineering (Subcommittee of Engineering Faculty Council), Mississippi State University, 2-91 to 1992, Member.

Development Committee, College of Engineering, Mississippi State University, 11-91 to 1993, Member.

MSU Site Steering Committee, Mississippi Alliance for Minority Participation (NSF-funded project), 1992-1994, Agricultural and Biological Engr Representative.

Engineering College Faculty Council, Mississippi State University, 1992-1994, Agricultural and Biological Engr Representative.

Honda Scholarship Selection Committee, College of Engineering, Mississippi State University, 1992-94, Member.

Food Chemist Search Committee (Asst/Assoc Prof position), Dept. of Food Science and Technology, Mississippi State University, 1993, Member.

Sigma Xi Community Affairs Committee, Mississippi State University, 1993-94, Chairman.

Faculty Awards Committee (Research) of the MSU Alumni Association, Mississippi State University, 1994, member.

Academic Committee of the Engineering College Faculty Council, Mississippi State University, 1994-95, Chairman.

Search Committee for Outreach Coordinator for the College of Engineering, Mississippi State University, Fall of 1995, Chairman.

Search Committee for Dean of the College of Engineering, Mississippi State University, 1995-96, Member.

Traffic Appeals Committee, Mississippi State University, 1995 - 1998, Member.

Quality Assurance Committee, Div. of Agriculture, Forestry & Veterinary Medicine, Mississippi State University, 1995-96, Member.

Materials Engineering Working Group, College of Engineering, Mississippi State University, 1995- 2004, Member.

Delta Council Ginning and Cotton Quality Committee, 1997-2003, Member.

Crosby Arboretum Advisory Committee, Div. of Agriculture, Forestry & Veterinary Medicine, Mississippi State University, 1997-2000, Member.

Hearin Grant Team on General Graduate Studies and Research, College of Engineering, Mississippi State University, 1997-2000, Team Leader.

Search Committee for the Head of Agricultural Communications at MSU, 1998, Chair.

Women in Engineering Steering Committee, MSU, 2000 - 2001, Member.

Chair, Search Committee for the Director of the Dave Swalm School of Chemical Engineering at Mississippi State University, 2000.

Chair, MSU Nutrient Management and Water Quality Task Force, 1999-2002.

Coordinator, MSU MAFES Research Program in Biomass-based Energy Research, 2000-2003.

Co-chair, MSU SACS Committee on Principles and Philosophy of Accreditation, 2001-2003

Co-Chair, MAFES / MSU-Extension Annual Conference Program Committee, 2001.

Chair, Ad Hoc Committee to Establish Guidelines for Evaluation of Off-Campus Faculty Members in MAFES, Mississippi State University, 2001.

Chair, Search Committee for Department Head of the Department of Electrical and Computer Engineering, Mississippi State University, 2002–2003.

Chair, Search Committee for Department Head of the Department of Plant and Soil Sciences, Mississippi State University, 2003-2004.

Member-At-Large on Board of Directors, MSU Chapter of Sigma Xi, 2003-2005.

Chair, Ad Hoc Review Committee for the Institute for Neurocognitive Science and Technology, 2004.

Chair, Search Committee for the Director of Academic Outreach and Continuing Education, Mississippi State University, 2004.

Chair, Search Committee for the Director of the University Honors Program, Mississippi State University, 2004.

Member, Athletic Council, 2004-present.

Member, Engineering Facilities Committee. Appointed by President Charles Lee. 2004-2005.

Member, Search Committee for the Director of Sponsored Programs, Mississippi State University, 2004.

Member, Search Committee for the Director of the Center for Advanced Vehicular Systems, Mississippi State University, 2004-2005.

Member, Enrollment Management Committee (Division of Student Affairs), Mississippi State University, 2004 – fall of 2006.

Member of the SEC Provosts' Committee on Study Abroad. Appointed by Provost Peter Rabideau, 2005-2010.

Member, Ad Hoc Space Planning Committee, Mississippi State University, 2006 - 2010.

Chair, Ad Hoc Committee to Review the Printing Services Department, Mississippi State University, Fall 2006.

Facilitator, Faculty Session, Mississippi State University Recruiting Summit, October 11, 2006.

Member, Task Force to Create Partnership Between MSU and the Mississippi Band of Choctaw Indians, 2006- 2009.

Co-Chair, MSU Enrollment Management Council (Reporting to the President), 2006- 2007.

Chair, Task Force on Faculty Activities and the Promotion and Tenure Process, 2006-2007.

Member of the university's Crisis Action Team which provides leadership and oversight of the university during emergency situations, Mississippi State University, 2007-2010.

Liaison to the MS Institutions of Higher Learning, Campus Advisory Committee for the Mississippi State University Presidential Search, 2008.

Member of the university's Behavioral Intervention Team which reviews the actions of students who present potential risk to themselves or others so that violence on the campus can be prevented, Mississippi State University, 2008-2010.

Chair, Search Committee for the Vice President for Agriculture, Forestry, and Veterinary Medicine, Mississippi State University, 2009.

Member, University's Executive Enrollment Management Committee, Mississippi State University, 2009-present.

Chair, President's Committee on Planning, Mississippi State University, 2010 – present.

Chair, Master Plan Development and Advisory Committee, Mississippi State University, 2010 – present.

Member of group to organize outreach event: "Human Capital: Enhancing the Academic Achievement of Men of Color." Mississippi State University, August 31, 2012. Two additional summits have been held and plans are to continue in the future.

Member of group to organize outreach event: "Women of Color Summit." Mississippi State University, February 8, 2013. An additional summit has been held and plans are to continue in the future.

TEACHING AND STUDENT-RELATED ACTIVITIES:

Courses

ABE 2813: Biophysical Properties of Materials. Taught each spring, 1989-1994.

ABE 4513: Dynamics of Aging. Taught every other fall, 1990 – 2003 and in the fall of 2007.

ABE 4613: Biomechanics. Taught every other fall, 1990-1999.

ABE 4711: Biomedical Principles Lab. Taught each spring, 1989-95.

ABE 4721: Biomedical Design Lab. Taught each fall, 1990-94.

ABE 2873: Land Surveying. Taught spring of 1995.

ABE 4916: Engineering Seminar. Taught twice, 1996-2000.

FYE 1001: True Maroon (freshman intro seminar). Taught fall of 2015 with two colleagues.

Assisted in the teaching of ABE 1911, ABE 2421, and ABE 4413 through 2004. From 2004-2006, I assisted in the teaching of ABE 1911.

Advising

Faculty Advisor to Mississippi State Student Chapter of Biomedical Engineering Society, 1989 to 1995. (Organized effort to secure charter).

Advisor to approximately 20 undergraduates (varied each year) in Agricultural and Biological Engineering from 1989 to 2003.

Mentor to Presidential Scholar Shawn Sanders (Biological Engineering undergraduate at Mississippi State University), 2001-2005.

Mentor to Appalachian Leadership Honors Program Scholar Nathan Kiser (Kinesiology undergraduate at Mississippi State University) 2007.

RESEARCH INTERESTS:

Biomechanics: fracture mechanics of bone, bone remodeling, rehabilitation devices, osteoporosis, connective tissue research, biomaterials, prosthetic design, biomass-based energy.

GRADUATE SUPERVISION:

Served on M.S. committee for Albert Stush, DMD, candidate for M.S. degree in Orthodontics, University of North Carolina, 1984 to 1985.

Served on M.S. committee for Lucas Stevens, DMD, candidate for M.S. degree in Orthodontics, University of North Carolina, 1984 to 1985.

Served on Ph.D. committee for Gary Pellam, M.S., candidate for Ph.D. in Biomedical Engineering, University of North Carolina, 1984 to 1987.

Served on M.S. committee for Darrell Donahue, candidate for M.S. degree in Biological Engineering, N.C. State University, 1984 to 1986.

Chairman of M.S. committee and advisor for Melissa Atkinson, B.S., candidate for M.S. degree in Biomedical Engineering, University of North Carolina, 1984 to 1987.

Served on M.S. committee for Christopher Giambelluca, candidate for M.S. degree in Physical Education, University of North Carolina, 1987.

Served on M.S. committee for Richard Brown, candidate for M.S. degree in Animal Science, Mississippi State University, 1989 to 1991.

Minor Professor on Ph.D. committee for Sally Hoffmann, B.S., candidate for Ph.D. in Counselor Education (Gerontology), Mississippi State University, 1991 to 1995.

Chairman of M.S. committee and advisor for Paul Weinhold, B.S., candidate for M.S. degree in Agricultural and Biological Engineering, Mississippi State University, 1990 to 1992.

Chairman of Ph.D. committee and advisor for Betsy I. Newton, M.S., candidate for Ph.D. degree in Agricultural and Biological Engineering, Mississippi State University, 1992 to 1996.

Chairman of M.S. committee and advisor for Lynne Witkowski, B.S., candidate for M.S. degree in Agricultural and Biological Engineering, Mississippi State University, 1992 to 1996 (transferred to another university).

Chairman of M.S. committee and advisor for F. Paul Lee, B.S., candidate for M.S. degree in Agricultural and Biological Engineering, Mississippi State University, 1992 to 1995.

Member of Ph.D. committee for Alistair Twaddle, M.S., candidate for Ph.D. in Forestry, Mississippi State University, 1992 to 1995.

Member of Ph.D. committee for Ken St.John, M.S., candidate for Ph.D. degree in Biomedical Engineering, Mississippi State University, 1992 to 2001.

Member of M.S. committee for Lance Dillon, B.S., candidate for M.S. degree in Agricultural and Biological Engineering, Mississippi State University, 1992 to 1994.

Chairman of Ph.D. committee for Saleh Tayyar, M.S., candidate for Ph.D. in Agricultural and Biological Engineering, Mississippi State University, 1993 to 1996.

Chairman of Ph.D. committee for Philip Williams, M.S., candidate for Ph.D. in Agricultural and Biological Engineering, Mississippi State University, 1992 to 1995.

Chairman of Ph.D. committee for Angelo Karavolos, M.S., candidate for Ph.D. in Agricultural and Biological Engineering, Mississippi State University, 1997 to 1999 (transferred to UAB).

Member of M.S. committee for Dana Nettles, candidate for M.S. degree in Biomedical Engineering, Mississippi State University, 1999 to 2001.

Member of Ph.D. committee for Hsin-Yi Lin, candidate for Ph.D. degree in Biomedical Engineering, Mississippi State University, 1999 – 2002.

Member of M.S. committee for Mansour I. Al-Risaini, candidate for M.S. degree in Biological Engineering, Mississippi State University, 2001-2003.

Member of M.S. committee of Kori Brabham, candidate for M.S. degree in Biomedical Engineering, Mississippi State University, 2002-2004.

Member of Ph.D. committee for Lakiesha Claude (Williams), candidate for Ph.D. degree in Biomedical Engineering, Mississippi State University, 2003- 2006.

Member of the Ph.D. committee for Holly Martin, candidate for Ph.D. degree in Chemical Engineering, Mississippi State University, 2004-2006.

Member of Ph.D. committee for Simon Shim, candidate for Ph.D. degree in Biomedical Engineering, Mississippi State University, 2004-2006.

Member of M.S. committee for Nathaniel Schultz, candidate for M.S. degree in Biomedical Engineering, Mississippi State University, 2005-2008.

Member of M.S. committee for Haley Rubisoff, candidate for M.S. Degree in Mechanical Engineering, Mississippi State University, 2008-2009.

PUBLICATIONS:

Refereed

Gilbert JA, Maxwell GM, George RT, McElhaney JH: Auditory feedback of knee angle for amputees. *Prosthetics and Orthotics Int'l* 1982; 6:103-104.

Wilson JF, Gilbert JA: Dynamic body forces on axillary crutch-walkers. *Amer J Phys Med* 1982; 61(2):85-92.

Gilbert JA, Maxwell GM, McElhaney JH, Clippinger FW: A system to measure the forces and moments at the knee and hip during level walking. *J Orthop Res* 1984; 2(3):281-288.

Gilbert JA, Phillips HO: The effects of steam sterilization on plaster casting material. *Clin Orthop* 1984; 190:241-244.

Gilbert JA, Eylers J, Banes AJ: A new instrument to assess joint stiffness in vitro. *J Biom Mat Res* 1985; 19:601-605.

Banes AJ, Gilbert JA, Taylor D, Monbureau O: A new vacuum-operated stress providing instrument that applies static or variable duration cyclic tension or compression to cells "in vitro" *J Cell Sci* 1985; 75:35-42.

Dahners LE, Jacobs RR, McKenzie EB, Gilbert JA: Biomechanical studies of an anterior pelvic external fixation frame intended for control and vertical shear fractures. *South Med J* 1986; 79(7):815-817.

Almekinders LC, Gilbert JA: Healing of experimental muscle strain and the effects of nonsteroidal anti-inflammatory medication. *Amer J Sports Med* 1986; 14(4):303-308.

Murphy DF, Greene WB, Gilbert JA, Dameron TB: Displaced olecranon fractures in adults: biomedical analysis of fixation methods. *Clin Orthop* 1987; 224:210-214.

Carter MD, Gilbert JA, Dahners LE: An evaluation of the bending stiffness of various tibial fixation methods. *Clin Orthop* 1987; 224:289-293.

Bynum DK, Gilbert JA: Avulsion of the flexor digitorum profundus: anatomic and biomechanical considerations. *J Hand Surg*, 1988; 13A:222-227.

Buckley MJ, Banes AJ, Levin LG, Sumpio BE, Sata M, Jordan R, Gilbert J, Link GW, Tran Son Tay R: Osteoblasts increase their rate of division and align in response to cyclic, mechanical tension "in vitro." *Bone and Mineral*, 1988; 4:225-236.

Gilbert, JA: Stress protection osteopenia due to rigid plating. *Clin Biomech* 1988; 3:179-186.

Dahners LE, Gilbert JA, Lester GE, Taft TN, Payne LZ: The effect of a nonsteroidal anti-inflammatory drug on the healing of ligaments. *Am J Sports Med*, 1988; 16:641-646.

Gilbert JA, Dahners LE, Atkinson MA: The effect of external fixation stiffness on early fracture healing. *J Orthop Res*, 1989; 7:389-397.

Gilbert JA, Banes AJ, Link GW, Jones GL: Surface strain on living cells in a mechanically active, in vitro environment. In: Dietrich, DE ed. ANSYS 1989 Conference Proceedings, Houston, PA, Swanson Analysis Systems 1989; 13.2-13.7

Hopp SG, Dahnert LE, Gilbert JA: A study of the mechanical strength of long bone defects treated with various autograft substitutes: An experimental investigation in the rabbit. *J Orthop Res*, 1989; 7:579-584.

Jasmine MS, Dahnert LE, Gilbert JA: Reduction of stress shielding beneath a bone plate by use of a polymeric underplate: an experimental study in dogs. *Clin Orthop*, 246:293-299, 1989.

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Gilbert JA and McKelvy P: Career Options for Biological Engineers at Mississippi State University. 1999 ASEE Annual Meeting (Charlotte, NC), June 21, 1999.

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Gilbert JA. Ethical Responsibilities of Faculty. New Faculty Orientation, Mississippi State University, August 16, 2004.

Gilbert JA and Saha S. Bioethics Session. (discussion moderators). The 11th Annual Meeting of the Institute of Biological Engineering. Tucson, Arizona, March 11, 2006.

Gilbert JA and Kolar P. Bioethics Session. (session organizers and moderators). The 12th Annual Meeting of the Institute of Biological Engineering. St. Louis, MO, March 31, 2007.

Gilbert JA. Cultural Sensitivity and Diversity. Leadership Development Series of the Office of Research and Economic Development, Mississippi State University. Dec. 13, 2007.

Gilbert JA and Kolar P. Bioethics Session. (session organizers and moderators). The 13th Annual Meeting of the Institute of Biological Engineering. Chapel Hill, NC, March 8, 2008.

Gilbert JA. "Sometimes in April" discussion facilitator, African American Studies films series, Mississippi State University, February 26, 2009.

Gilbert JA and Kolar P. Bioethics Session. (session organizers and moderators). The 14th Annual Meeting of the Institute of Biological Engineering. Santa Clara, CA, March 21, 2009.

Gilbert JA, Mullen T and Bourgeois T. "Behavioral Intervention Team (Center for Teaching and Learning Brown Bag Series)." Panel member, Mississippi State University, April 22, 2009.

Johnson A, Verma B, Bhalerao K, Riley M, Young R, and Gilbert JA. "Biological Engineering Basics." Panel member. The 17th Annual Meeting of the Institute of Biological Engineering. Indianapolis, IN. March 3, 2012.

Gilbert J and Runyan R. "Breaking the barrier: Recruiting strategies to enhance diversity." Joint Conference of the Board of Human Sciences and the Council on Administrators of Family and Consumer Science." Washington, D.C. March 4, 2015.

Gilbert J, Graham M, Keenum M, and Pugh J. "Maintaining the community college mission: Partnerships with universities are the key." American Association of Community Colleges, San Antonio, TX. April 20, 2015.

SCIENTIFIC EXHIBITS:

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COMMUNITY INVOLVEMENT:

Cofounder, Starkville Foundation for Public Education, 1989.

President, Starkville Foundation for Public Education, 1990-1991. Member, Board of Directors, Starkville Foundation for Public Education, 1990-2010. Chair, Grants Committee, Starkville Foundation for Public Education, 1990-2009.

Member, Starkville Public Schools STEP Committee on Finance, 1989-1990.

Member, Service Committee of Trinity Presbyterian Church, Starkville, MS, 1990-1996.

Member, Topographical Survey Team for Black Oddfellows Cemetery, Starkville, MS, 1990-91.

Teacher, Elementary I Sunday School Class, Trinity Presbyterian Church, Starkville, MS, 1999–2006 and fall of 2007.

Member, Board of Directors, Starkville Area Arts Council, 2003-2006.

Festival-Day Finance Coordinator, 2009 Cotton District Arts Festival, Starkville, MS, April 18, 2009.

Member, Strategic Planning Team, Starkville Public School District, Spring of 2013.