

CURRICULUM VITAE

Walter B. Sinnamon, Ph.D.

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EDUCATION:

Ph.D., Zoology, Clemson University, May 1985

Dissertation Title: *The Effects of Pinealectomy, Exogenous Melatonin Administration and Melatonin Antibody Production on Hibernation in Spermophilus tridecemlineatus.*

Course work on M. Ed. with concentration in Biology at State University of New York at Geneseo, 1975-1977.

B.S., Zoology, Houghton College, June 1969

TEACHING AND ADMINISTRATIVE POSITIONS HELD:

Southern Wesleyan University, Central, SC 29630

Dean of the College of Arts and Sciences – 2005 to present

Chair of the Division of Science – 2003 to present

Adjunct Prof., Dept. of Clinical Services, MUSC-2001 to 2009

Professor of Biology - 1990 to present

Special Assistant to the President for Institutional Effectiveness - 1993 to 2003

Associate Director of Planning - 1992 to 1993

Grant Proposal Coordinator - 1990 to 1992

Associate Professor of Biology - 1985 to 1990

Director of Research for LEAP (Leadership Education for Adult Professionals) - 1988 to 1990

Coordinator of Cooperative Program with Clemson University - 1985 to 1990

Assistant Professor of Biology - July 1982 to June 1985

Courses taught at Southern Wesleyan University: Human Anatomy and Physiology, Cellular and Molecular Biology, Microbiology, Animal/Comparative/Environmental Physiology, Biology, Zoology, Environmental Science/Ecology, Physiology of Behavior, Biology Seminar, Survey of Anatomy and Physiology, Human Biology, Animal Behavior, Research Methods in LEAP, Stress Management Seminar, and Methods of Teaching Science in the Middle and Secondary Schools

Clemson University, Department of Zoology, Clemson, SC 29631

Graduate Teaching Assistantship - August 1977 to June 1982.
Systems Physiology, Human Anatomy and Physiology

Houghton Academy, Houghton, NY 14744

Business Manager - August 1973 to July 1977.

Science Instructor - August 1969 to July 1977.

Biology, Chemistry, Physical Science, Health

PROFESSIONAL DEVELOPMENT:

The Pedagogy of Faith in the Science Classroom Workshop at Indiana Wesleyan University, Marion, IN, June 27-29, 2011.

Radiation Safety Officer Training, July 26-30, 2010 in Atlanta, GA through Nevada Technical Association, Inc.

Q3 Conference on *Faith and Science: Celebrating the Wonder of God* at Asbury Theological Seminary, Wilmore, KY, March 9-11, 2010 through grant from John Templeton Foundation's Science for Ministry Initiative.

International Forum on Christian Higher Education: *Critical Breakthroughs*, Council for Christian Colleges and Universities, February 23-26, 2010, Atlanta, GA

NSF High Altitude Balloon Workshop, July 29-30, 2009, Taylor University, Upland, IN

D.O.T. Hazardous Materials Training at Southern Wesleyan University, June 8, 2009.

Managing Students with Chronic Illness: In/Outside the Classroom, Webinar, February 12, 2009.

Moodle 100—Introduction to Moodle (training to use Moodle rooms to teach online courses and produce the beginnings of an online course), July 2008

Summer Institute for Academic Deans and Department Chairs, National Resource Center for The First-Year Experience & Students in Transition, University of South Carolina, July 20-22, 2008, Asheville, NC

“Advancing the Department,” Workshop for Department and Division Chairs, The Council of Independent Colleges, May 20-22, 2008, Atlanta, GA

South Carolina Academy of Science Annual Meeting at Clemson University, March 20, 2008

Environmental Protection Agency Safety Training, February 12-14, 2008 at Wofford College, Spartanburg, SC

Forensic Science Seminar (FRSC 3101), “Firearms and Ballistics,” Southern Wesleyan University, Fall 2007

Forensic Science Seminar (FRSC 3101), “Trace Evidence,” Southern Wesleyan University, Fall 2007

Promethean (“smart”) board training at Southern Wesleyan University, July 10 and October 6, 2007

ADEPT training at Southern Wesleyan University, March 17, 2007

Introduction to Forensic Science (FRSC 2103), Southern Wesleyan University, Spring 2007

National Science Foundation Day at Clemson University, Clemson, SC, January 12, 2006

“The Application of Forensic Anthropology and Forensic Pathology to Stimulate Student Interest in the Sciences,” Chautauqua Short Course, June 23-25, 2005, Temple University, Philadelphia, PA

“Introducing Forensic Science into College Classrooms,” Chautauqua Short Course, June 27-29, 2004, Christian Brothers University, Memphis, TN

Physiology Teachers Conference, University of South Carolina School of Medicine, October 17, 2003, Columbia, SC

The Laboratory Safety Institute Short Course, July 29-August 1, 2003, sponsored by the College of Charleston, Charleston, SC

Developing Research Programs at Four-Year Colleges and Universities Workshop, sponsored by South Carolina EOSCoR Program, SC-BRIN, and South Carolina Academy of Sciences, March 21, 2003, at Clemson University, Clemson, SC

SCUP Southeast Regional Conference, Society for College and University Planning, November 3-5, 2002, Nashville, TN

Physiology Teachers Conference, University of South Carolina School of Medicine, October 18, 2002, Columbia, SC

“Psychoactive Drugs and the Molecular Biology of the Neuron,” Chautauqua NSF Short Course, August 1-3, 2002, Harvard University, Cambridge, MA

Stewart Method Acid-Base Workshop, July 19, 2002, University of South Carolina School of Medicine, Columbia, SC

Physiology Teachers Conference, University of South Carolina School of Medicine, October 19, 2001, Columbia, SC

“Carolina Conference on Quality,” Coastal Carolina University and Datatel, October 1-2, 2001, Myrtle Beach, SC

“Continuous Quality Improvement: Pathfinder Workshop,” Center for Excellence in Education, Datatel, September 29-30, 2001, Myrtle Beach, SC

“Continuous Quality Improvement in the Classroom,” Southern Wesleyan University, August 16, 2001, Central, SC

“The Challenges of Change, IR Beyond Y2K,” Southern Association of Institutional Research Annual Conference, October 22-24, 2000, Myrtle Beach, SC

“Surveys of Students and Faculty: Using Good Practices and the Internet to Lower Costs and Increase Response Rates” and “Focus Group Research,” two pre-conference workshops from Southern Association of Institutional Research Conference in October 21, 2000

“Physiology for Physiology and Biology Teachers,” Chautauqua NSF Short Course, August 14-16, 2000, University of Washington, Seattle, WA

“How and Why We Age,” Chautauqua NSF Short Course, June 1-3, 2000, Temple University, Philadelphia, PA

“Creating Course Materials for the World Wide Web,” Chautauqua NSF Short Course, May 25-27, 2000, The University of Texas at Austin, Austin, TX

“Instructional Simulation and Discovery Learning Seminar” (CHED 3001), April 13-15, 2000, sponsored by Southern Wesleyan University Division of Religion and Staley Lecture Series, Central, SC

“Technology for the New Millennium: the New Alchemy, Turning Lead into Gold; Turning Data into Information,” February 21-23, 2000, South Carolina Association of Institutional Research Annual Conference in Myrtle Beach, SC

Training for using the *College Student Inventory* to identify and intervene with at-risk students prior to The First-Year Experience National Conference, February 19, 2000, Columbia, SC

“Affirming Students’ Strengths in the Critical Years,” a National Forum of the Council for Christian Colleges & Universities in partnership with the National Resource Center for the First-Year Experience & Students in Transition, February 18, 2000, Columbia, SC

“Education as Empowerment: Connections Realities,” at the Southern Association of Colleges and Schools Annual Conference in Atlanta, GA, December 4-7, 1999.

“Participating in the Divine Conspiracy: Educating a Generation of Disciples for Kingdom Living,” at the Council for Christian colleges & Universities National Assessment Conference at Point Loma Nazarene University in San Diego, CA, October 14-16, 1999.

Seminar on strategic planning in Christian Schools by the The PlanIt Institute, July 14, 1999

Praxis II Workshop by Educational Testing Service, Anderson College, Anderson, SC, May 6, 1999

Consortium for Assessment and Planning Support, conference on “Improving Institutional Quality Through Effective Assessment and Planning, Northeast Louisiana University, April 17-20, 1999.

Commission on Colleges of the Southern Association of Colleges and Schools, "Teaching and Learning: New Paradigms for the 21st Century," Annual Meeting in Atlanta, GA, December 5-8, 1998.

Association for Institutional Research, "Applied Statistics for Institutional Research, Planning and Management," March 22-26, 1998, University of Georgia, Athens, GA

Coalition for Christian Colleges and Universities, National Assessment Conference, entitled "All Those Statistics: What Do They Mean?" March 5-7, 1998 at Lee College in Cleveland, TN

South Carolina Association of Institutional Research Annual Meeting, entitled "Multiple Roads: Selecting Proactive Paths " February 23-25, 1998 in Myrtle Beach, SC.

Seminar entitled "Outcomes Assessment in Higher Education Linked with Strategic Planning and Budgeting," Strategic Planning/Management Associates, Inc., November 4, 1997, Columbia, S.C.

Physiology Teachers Conference, October 10, 1997, Department of Physiology, University of South Carolina, School of Medicine, Columbia, S.C.

Coalition of Christian Colleges and Universities' Quality/Retention Conference, Washington, D.C., July 8-9, 1997.

Chautauqua Short Course at Duke University, Raleigh, N.C., May 21-24, 1997, entitled: "Neurobiology of the Mind."

"Strategies for Supporting Active Learning in the Classroom and Laboratory," Workshop at North Carolina State University, March 1, 1997

South Carolina Association of Institutional Research Annual Meeting, entitled "Performance Indicators: Meeting the Challenges ", February 24-26, 1997 in Myrtle Beach, SC.

Southern Association of Colleges and Schools Annual Meeting, entitled "Connection: The Future of Learning," December 8-10, 1996 in Nashville, TN.

Post-conference workshop entitled "The Role of Assessment in Institutional Effectiveness," at the Annual Meeting of the Southern Association of Colleges and Schools, December 11, 1996.

Pre-conference workshop entitled "Developing Effective Institutional Research Functions," at Annual Meeting of Southern Association of Colleges and Schools, December 8, 1996

South Carolina Higher Education Assessment Network Annual Conference, entitled "Strong Foundations: Assessing the Present and Preparing for the Future," November 14-17, 1996 in Myrtle Beach, SC.

Physiology Teaching Conference at University of South Carolina School of Medicine, September 27, 1996.

College Information Systems Spring Conference on "Assessing the Student Experience At the Independent College: A Framework for Understanding the Assessment of Student Growth and Development," March 7 and 8, 1996 at Columbia College, Columbia, SC.

South Carolina Association for Institutional Research Annual Conference, entitled "Riding the Crest of Change: Ensuring Quality through Research," February 26-28, 1996 at Myrtle Beach S.C

South Carolina Higher Education Assessment Network Seminar, entitled "Assessing Faculty Performance," January 29, 1995 at Columbia College, Columbia, S.C.

Cell and Tissue Culture course at The Catholic University of America in Washington, D.C., January 8-12, 1996

"The Internet: How To Understand, Access, And Use The Internet," a Fred Pryor Seminar in Greenville, S.C., December 20, 1995

South Carolina Higher Education Assessment Network Annual Conference, entitled "Intersections: Crossroads and Collisions on the Way to Institutional Effectiveness," November 2-4, 1995 in Myrtle Beach, S.C.

Workshop on Calculator Based Laboratories, Curriculum Leadership Institute of Anderson-Oconee-Pickens Science and Math HUB, June 20, 1995 at Southern Wesleyan University, Central, S.C.

"Leadership for Change" seminar presented by Center For Creative Leadership, South Carolina Higher Education Assessment Network at Winthrop University, May 4, 1995

Human Anatomy and Physiology Society update seminar, March 18, 1995 at UNC Charlotte, Charlotte, N.C.

South Carolina Association for Institutional Research Annual Conference, entitled "The IR Effectiveness Triad: Pathway To Excellence," March 6-8, 1995 in Charlotte, N.C.

South Carolina Higher Education Assessment Network's Annual Conference, entitled "Assessment for Quality Improvement and Accountability," November 4-5, 1994 in Myrtle Beach, S.C.

Workshop on "Enhancing Student Success Using Continuous Quality Improvement (CQI)" sponsored by South Carolina Higher Education Network, November 3, 1994 in Myrtle Beach, S.C.

Conference on "Comprehensive Assessment Plans for Christian Colleges" sponsored by the Christian College Coalition at Calvin College, Grand Rapids, MI October 6-8, 1994

Chatauqua Short Course at Christian Brothers University, Memphis, TN, June 9-11, 1994, entitled "Morphological and Physiological Neuroscience: The Growth in Modern Methods.

"INTERNET: A Practical Approach," a three hour videoconference on May 5, 1994 at Tri-County Technical College, Clemson, S.C.

"Implementing Total Quality Management: Beyond the basics -- how to make TQM work in your workplace," seminar sponsored by CareerTrack Seminars, April 14, 1994, in Greenville, S.C.

South Carolina Higher Education Assessment Network's seminar on "Using Assessment to 'Close the Loops' for Program Improvement, Institutional Planning, and Accountability," Columbia, S.C., March 18, 1994.

South Carolina Association for Institutional Research's Annual Conference, entitled "The Challenge of Change and the Emerging Importance of Institutional Research," Myrtle Beach, S.C., February 23-25, 1994.

South Carolina Higher Education Assessment Network's Annual Conference, entitled "Beyond Minimalism: Making Assessment Work for Quality Improvement," October 28-30, 1993.

Chautauqua Short Course at Temple University, Philadelphia, PA, May 24-26, 1993 entitled "Basic Biology of Cancer."

Institutional Effectiveness Associates' workshop on "Implementing Institutional Effectiveness To Meet Accreditation Requirements," in Charlotte, NC, April 30 and May 1, 1993

Christian College Coalition workshop on assessment at Calvin College, Grand Rapids, MI, April 15-17, 1993

Chautauqua Short Course at Christian Brothers University, Memphis, TN, March 4-6, 1993, entitled "Electron Microscopy: Biological Application."

The New York Academy of Sciences Workshop in Lexington, KY, February 12-14, 1993 entitled "Promoting Active Learning in the Life Science Classroom."

Postdoctoral research on AP₄A at Clemson University with Dr. Edward Pivorun, February to March, 1993

JCCI Title III Proposal Development Workshop for Strengthening Institutions Program in Atlanta, GA, October 25, 1991.

Human Anatomy and Physiology Conference, May 25-30, 1991 in Greenville, SC sponsored by The Human Anatomy and Physiology Society

Chautauqua Short Course at University of Dayton, Dayton, OH in May, 1991 entitled "Microcomputers as Laboratory Tools."

Partners in South Carolina Education cosponsored by S.C. Department of Education and S.C. Commission on Higher Education in Columbia, SC in January 1991

Grant Proposal Writing Workshop sponsored by The Grantsmanship Center in Augusta, GA in September 1990

Chautauqua Short Course in Atlanta, GA in May 1990 entitled "Critical Thinking in Science Teaching."

Chautauqua Short Course at Temple University, Philadelphia, PA in May 1988 entitled "Human Neuropsychology: Recent Advances in the Investigation of Brain-Behavior Relationships."

Workshop on assessment of prior learning portfolio for Leadership Education for Adult Professionals (LEAP) at Central Wesleyan College (CWC) in March 1987, and evaluation of prior learning essays.

Christian College Coalition workshop, at Olivet Nazarene College, on

"Christianity and the Philosophy of Science" in August 1986.

"Be Here Now Seminar," sponsored by College Survival, Inc., in July 1985, which helps train people to teach freshman seminar type courses.

Inservice Workshop Two on Handicapped and Mainstreaming, at Central Wesleyan College in January 1984.

Inservice Workshop One on Handicapped and Mainstreaming, at Central Wesleyan College in January 1983.

PROFESSIONAL ACTIVITIES:

Member of Pickens County Clean Air Advisory Committee, 2008-2010

Member of Institutional Biosafety Committee, Clemson University, 2007-present

Member of Steering Committee for Small Learning Communities Implementation Grant, 2003-2004

Member (Chair, 2003-2004, 2008-2010) of Arts and Sciences Advisory Committee of Tri-County Technical College, 2002-present

Participation in Project Jericho, a technology standards team, 2001-2002.

Health Professions Advisors Workshop, "Changing opportunities: what students can expect for the future," Medical University of South Carolina, October 20, 2000, Charleston, SC

Presenter at session on "Celebrating the Self-Study" at the Southern Association of Colleges and Schools Annual Conference in Atlanta, GA, December 4-7, 1999.

Reviewer for Chapters 13, "Digestive System," 14, "Urinary System," and 15, "Reproductive System," 16, "Cell Reproduction and Differentiation," 17, "Cancer," and 18, "Genetics and Inheritance" for Human Biology: Concepts and Current Issues, 1998, for Addison Wesley Longman.

Member of visiting team for reaffirmation visit to Wayland Baptist University, Plainview, TX, October 26-29, 1997 for Southern Association of Colleges and Schools

Member of Executive Board of Anderson-Oconee-Pickens Council of Teachers of Math and Science (1997-present)

Member of Executive Committee of South Carolina Association of Institutional Research (SCAIR) (1997-1999); Member of Conference Committee for SCAIR (1995-1998); Member of Nominating Committee for SCAIR (2000-2002)

Member of Title I School Support Team for Anderson-Oconee-Pickens counties under the State of South Carolina Department of Education (1996-2000)

Member of Natural Science/Mathematics Advisory Board for Anderson College, Anderson, SC (1994-1998)

Member of South Carolina Higher Education Assessment (SCHEA) Network Advisory Board (1993-1999); Co-Chair of Special Interest Groups Committee of SCHEA (1994-1997)

Member of Anderson-Oconee-Pickens Science and Math Hub Advisory Board (1993-1997, 2000-present) (Vice Chair, 1995-97)

South Carolina Department of Education (NADSTEC) evaluation of teacher education programs (Faculty and Teaching Majors: General Standards) at Anderson College, Anderson, SC in October, 1994

Reviewed new standards for approving teacher education programs for South Carolina Department of Education.

Reviewer for Chapter 10, "Nervous System," from Human Biology by Sylvia Mader, 4th edition, 1994, for Wm. C. Brown Publishers.

Reviewer for Chapter 5, "Obtaining Material -- Movement Into Cells," from Biology: A Critical Thinking Approach by Robert Allen, 1994, for Wm. C. Brown Publishers.

Wrote fifth-year response for Southern Wesleyan University to Southern Association of Colleges and Schools, Commission on Colleges.

South Carolina Department of Education (NADSTEC) evaluation of teacher education programs (Faculty) at Erskine College, Due West, SC in March, 1993.

South Carolina Department of Education (NADSTEC) evaluation of teacher education programs (General Science) at Charleston Southern University, Charleston, SC in February, 1993.

South Carolina Curriculum Congress in Columbia, S.C., August 12, 1991, delegate to first congress and member of curriculum committee for science.

NADSTEC evaluation of teacher education programs (Biology and Chemistry) at Coker College, Hartsville, SC in March 1991.

Assessments of Performance in Teaching (APT) reindorsement in June 1990.

Assessments of Performance in Teaching (APT) training in August, 1982.

HONORS and AWARDS:

South Carolina Independent Colleges & Universities Excellence in Teaching Award, 2008

Governor's Distinguished Professor Award 2007

Ken Dickens Award for Excellence in Teaching, 2007-2008

Professor of the Year Award at Southern Wesleyan University, 2007-2008

Who's Who Among America's Teachers, 2005-2006

Who's Who Among America's Teachers, 2004-2005

Presidential Citation, Southern Wesleyan University, 2003

RECOGNITIONS:

Cambridge Who's Who Among Executives, Professionals and Entrepreneurs, 2010-2011

Marquis Who's Who in America, 2011

Marquis Who's Who in the World, 2011

Marquis Who's Who in America, 2010

Marquis Who's Who in the World, 2010

Cambridge Who's Who Executive and Professional Registry, 2009-2010

Marquis Who's Who in the World, 2009

Marquis Who's Who in America, 2009

Marquis Who's Who in America, 2008

International Directory of Experts and Expertise, 2008

Who's Who in American Education, 2007-2008

Global Register's Who's Who In Executives and Professionals, 2005-2006

Continental Who's Who, 2005-2006 (Lifetime Member)

Manchester Who's Who, 2005-2006

Madison Who's Who 2004-2005

Strathmore's Who's Who 2004-2005

United Who's Who of Executives and Professionals 2004-2005

Who's Who Among America's Teachers, 2003-2004
 Strathmore's Who's Who 2002-2003
 Strathmore's Who's Who 2000-2001
 International Who's Who of Professionals 1998-99
 Marquis' Who's Who in the South and Southwest 1997-98
 Marquis' Who's Who in the South and Southwest 1995-96

GRANTS WRITTEN:

2008	\$600,000	NSF Grant for Search for Talent in Math and Science (with Sandra McClendon, School of Education) (not funded)
2008	\$74,000	Higher Education HP Technology for Teaching Grant (with Sandra McClendon, School of Education) (not funded)
2007	\$600,000	NSF Grant for Search for Talent in Math and Science (with Sandra McClendon, School of Education) (not funded)
2004	\$1,000	SC-BRIN/EPSCoR Network Seminar Award (funded)
2003	\$2,700	Sponsor: South Carolina Independent Colleges and Universities Student/Faculty Research Program grant with Rupal Shah. (funded)
1995	\$33,650	Sponsor: Consortium for the Advancement of Private Higher Education, Washington D.C. Topic: Faculty Roles, Faculty Rewards, and Institutional Priorities. (not funded)
1991	\$47,000	Sponsor: National Science Foundation, Washington D.C. Topic: Instrumentation and Laboratory Improvement (not funded)
1991	\$20,000	Sponsor: JanIrve Foundation, Asheville, N.C. Topic: Capital Campaign for new Campus Life Center (funded)
1991	\$20,000	Sponsor: Cannon Foundation, Kannapolis, N.C. Topic: Capital Campaign for new Campus Life Center (funded)
1990	\$643,000	Sponsor: U.S. Department of Education, Washington D.C. Topic: Title III - Strengthening Institutional Program Grant (not funded)

- 1980 \$250 Sponsor: Sigma Xi Committee on Awards, Topic: Role of the pineal gland in hibernation in *Spermophilus tridecemlineatus* (funded)
- 1973 NSF Summer Study Grant at Old Dominion University (Oceanography and Ecology)
- 1972 NSF Summer Study Grant at Beaver College (LeHigh Consortium) (Chemistry)

PUBLICATIONS RELATED TO RESEARCH:

Sinnamon, W.B. 1989. *Research Project* (for the LEAP Program). Institute for Professional Development, 149 pages.

Sinnamon, W.B. and Pivorun, E.B. 1983. Effect of pinealectomy on the circannual bodyweight rhythm of *Spermophilus tridecemlineatus*. *Am. Zool.* (abstr.)

Sinnamon, W.B. and Pivorun, E.B. 1982. Effects of pinealectomy, melatonin injections, and melatonin antibody production on the mean duration of individual hibernation bouts in *Spermophilus tridecemlineatus*. *J. therm. Biol.* 7:243-249.

Sinnamon, W.B. and Pivorun, E.B. 1981. Effect of chronic melatonin administration on the duration of hibernation in *Spermophilus tridecemlineatus*. *Comp. Biochem. Physiol.* 70:435-437.

Sinnamon, W.B. and Pivorun, E.B. 1981. Melatonin induces hypertrophy of brown adipose tissue in *Spermophilus tridecemlineatus*. *Cryobiology.* 18:603-607.

Pivorun, E.B. and Sinnamon, W.B. 1981. Blood coagulation studies in normothermic, hibernating, and aroused *Spermophilus franklini*. *Cryobiology.* 18:515-520.

Pivorun, E.B. and Sinnamon, W.B. 1978. Depression of tissue respiration by hibernation trigger. *Am. Zool.* 18:575 (abstr.).

PAPERS PRESENTED AT SCIENTIFIC MEETINGS:

The effects of eating Cheerios on the total cholesterol and HDL human plasma levels. South Carolina Independent Colleges and Universities Research Symposium, February 4, 2004 (with Rupal Shah)

Effect of pinealectomy on the circannual bodyweight rhythm of *Spermophilus tridecemlineatus*. American Society of Zoologists Annual Meeting, Philadelphia, PA, December 1983.

Effects of naloxone on induced torpor in *Peromyscus maniculatus* and *Spermophilus tridecemlineatus*. 61st Annual Meeting, American Society of Mammalogists, Miami University, Oxford, OH, June 1981, (with E.B. Pivorun and M.G. Tannenbaum).

Effects of chronic melatonin administration on brown adipose tissue and duration of hibernation in *Spermophilus tridecemlineatus* and duration and incidence of torpor in *Peromyscus leucopus* and *P. maniculatus*. 61st Annual Meeting, American Society of Mammalogists, Miami University, Oxford, OH, June 1981, (with E.B. Pivorun and M.G. Tannenbaum).

Pinealectomy and melatonin implant effects on the duration of torpor bouts in *Spermophilus tridecemlineatus*. 60th Annual Meeting, American Society of Mammalogists, University of Rhode Island, Kingston, RI, June 1980.

Hypocoagulability in hibernating *Citellus franklini*. Regional Meeting, Comparative Physiology and Biochemistry Section of the American Society of Zoologists, VPI, Blacksburg, VA, February 1980, (with E.B. Pivorun).

Pinealectomy and melatonin implant effects on the duration of torpor bouts in *Citellus tridecemlineatus*. Regional Meeting, Comparative Physiology and Biochemistry Section of the American Society of Zoologists, VPI, Blacksburg, VA, February 1980.

Depression of tissue respiration by hibernation trigger. American Society of Zoologists Annual Meeting, Richmond, VA, December 1978, (with E.B. Pivorun).

COLLECTION OF NEW SPECIES:

Xylomya terminalis, a dipteran (holotype in Cornell University entomology collection, C.U. Type No. 5119).

RESEARCH TECHNIQUES ACQUIRED:

Radioimmunoassay (utilized RIA for melatonin with some familiarity of assays for HCG, LH, FSH, and B-endorphin)
Biotelemetry (temperature) and computerized data acquisition
Stereotactic cannulation
Surgery
Electrophoresis
Chromatographic techniques including gas chromatograph, HPLC, thin-layer, column of various types
FTIR
Standard physiological equipment (such as: stimulator, physiograph, oscilloscope, various types of spectrophotometers, metabolators, data acquisition, and many others)
Various filtration techniques
Radiometer BMS3-Mk2 blood gas analyzer
Paramagnetic oxygen analyzer
Infrared carbon dioxide analyzer
Gilson respirometer
Freezing-point osmometer
Flame photometer
Bomb calorimeter
Standard microscopic (brightfield, darkfield, phase contrast, fluorescent) and histological techniques
Scanning and transmission electron microscopy
Autoradiography
Various ecological instrumentation (e.g., BOD, conductivity meter)

SUPERVISION OF STUDENT RESEARCH/HONORS PROJECTS:

Antibacterial properties of extracts from *Solidago altissima* and *Aloe barbadensis* by Ashlee Houser (2006)

The effect of Red Bull, Gatorade, and Powerade compared to water on the wheel-running activity of *Mus musculus* by Aaron Tolan (2005)

The effects of eating cheerios on the total cholesterol and HDL human plasma levels by Rupal Shah (2003)

The effects of elevated nighttime melatonin injections on activity and maze learning in *Mus musculus* by Phillip Edmonds (1996)

Identifying individuals at high risk for caries development: dividing a population into caries-susceptible and caries-resistant based on pH changes after sucrose challenge by Brian Ray (1995)

The effects of pulsed high-voltage DC electric field application on strength-duration characteristics of isolated frog gastrocnemius muscle by Ken Nicholson (1988)

The effect of naloxone injections, a B-endorphin receptor blocker, on the bodyweight and activity of genetically obese mice by Nancy Mann (1986)

The effect of melatonin injections, late in the photophase, on the bodyweight and activity rhythms of the Siberian hamster, *Phodopus sungorus* by Jenny Paterson and Joan Clardy (1984)

TEACHER CERTIFICATION:

New York State Permanent Certification in biology, chemistry, physical science and general science

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

Council of Colleges of Arts & Sciences, 2008 to present

Affiliation of Christian Biologists, 1991 to present

American Association for the Advancement of Science, 2005 to present

American Scientific Affiliation, 1969 to present

History of Science Society, 2005 to present

Human Anatomy and Physiology Society, 1990 to present

National Association of Advisors for the Health Professions, 2003 to present

Sigma Xi, 1982 to present

Society for Integrative and Comparative Biology, 1978 to present

South Carolina Academy of Science, 1998 to present

JOURNALS SUBSCRIBED TO:

American Scientist

Integrative and Comparative Biology

Isis

Nature

Perspectives on Science and Christian Faith

Physiological and Biochemical Zoology

Science

Scientific American

MEMBERSHIP IN NONACADEMIC ORGANIZATIONS:

Gideons International, 1984 to present

Wycliff Associates, 1983 to present

NONTEACHING RESPONSIBILITIES (Past or Present)

Southern Wesleyan University

Dean of the College of Arts and Sciences (CAS) (2005 to present)

Chair of CAS Division Chairs (2005 to present)

Member of Search Committees for Computer Science, English, Communication, Psychology, and Religion Faculty (2007 to 2008)

Member of SACS Oversight Committee (2006 to 2009)

Chair of Search Committee for Biology faculty member (2004 to 2005)

Chair of the Division of Science (2003 to present)

Division Chair's Committee (2003 to 2005)

Intercollegiate Athletic Compliance Officer (2003 to 2006)

Member of Planning Council (1992 to present) (Chair, 1992 to 2003)

Member of Search Committee for Director of Business Programs for AGS (2003)

Member of Institutional Research Committee (2002 to present)

Member of Academic Council (1998 to 2002, 2003 to present)

Chair of Search Committee for Education faculty members (2002)

Member of Search Committee for Biology faculty member (2002)

Member of Teacher Quality Education Team (2001 to present)

Chair of Biology Education Committee (2001 to present)

Member of Web Site Committee (2001)

Member of Administrative Council (2000 to 2003)

Member of Search Committee for English faculty member (2001)

Member of Search Committee for Education faculty member (2000)

Member of Spiritual Life Council (1999 to 2008)

Member of the President's Cabinet (1993 to 2003)

Member of Search Committee for English faculty member (1998)

Director of Self-Study and Chair of Self-Study Steering Committee for Reaffirmation of Accreditation by Southern Association of Colleges and Schools (1997 to 1999)

Member of Information Technology Committee (1995 to 2008)

Special Assistant to the President for Institutional Effectiveness (Planning, Assessment and Institutional Research) (1992 to 2003)

Chair of Facilities Planning Committee (1993 to 2003)

Chair of Faculty Development Committee (1993 to 1995)

Chair of Academic Vice President Search Committee (1992 to 1993)

Member of Council of Administrators (1992 to 1993; 2000 to 2003)
 Vice Chairman of Student Life Council (1991 to 1992)
 Chair of Faculty Athletic Committee (1991 to 1992)
 Faculty Liaison to Board of Trustees (1991 to 1992)
 Member of Institutional Animal Care and Use Committee (1991 to present)
 Chair of Ad Hoc Intercollegiate Athletic Committee (1990 to 1992)
 Academic Advisor (1982 to present)
 Chair of Faculty Affairs Committee (1989 to 1991)
 Interdisciplinary Seminar Coordinator (1989 to 1990)
 Chair of Campus Appeals Committee (1988 to 1990)
 Member of LEAP Policies Committee (1988 to 1991)
 Member of Self Study Committee for Reaffirmation of Accreditation
 by Southern Association of Colleges and Schools (1986 to 1989)
 Chair of Educational Support Services Committee for reaffirmation of
 accreditation (1986 to 1989)
 Member of Search Committee for new English faculty (1987)
 Student Government Association Sponsor (1982 to 1985, 1986 to 1989)
 Sponsor of Classes of 1989, 1994, and 2005
 Member of Student Affairs Committee (1982 to 1985, 1986 to 1987, 1988 to
 1989, 1991-92)
 Member of Academic Committee (1984 to 1986)
 Member of Library Committee (1982 to 1983)
 Member of Cultural Affairs Committee (1984 to 1986)
 Member or Chair of Interdisciplinary Seminar Committee (1984 to 1985, 1989 to
 1990)
 Member of Marriage and Family Seminar Committee (1984 to 1985)
 Member of Ad Hoc Committee on Science Curriculum (1982 to present)
 Member of Ad Hoc Committee on Computers
 Member of Athletic Committee (1986 to 1990, 2002 to 2006)
 Baseball Coach (1985 to 1990, 1991 to 1992)
 1985 - started the new intercollegiate baseball program
 1989 - one of eight teams to go to NCCAA National Tournament
 1990 - won Christian College Tournament in Florida
 1992 - hosted the NCCAA District V Tournament
 Health professions advisor (1982 to 2010)
 Nursing Cooperative Program advisor with Clemson University (1982 to 1997)
 Perform APT evaluation of student teachers
 Taught in SWU camp for the gifted
 Judge local and regional science fairs

Clemson University

Member of Institutional Biosafety Committee (2007 to present)
Member of Committee on Laboratory Animal Welfare (1980-81)

Houghton College

Assistant Baseball Coach (1974-75, 1976-77)

Houghton Academy

Class Sponsor
Student Government Association Sponsor
Yearbook Cosponsor
Assistant Coach for soccer and basketball
Track Coach

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