

Biographical Data

Everett D. Wilson

Professor of Biology

Biology

Sam Houston State University

Degrees Earned

B.S., Zoology, Physical Education, Indiana State University, Terre Haute, Indiana, 1947-1950.

M.S. Chemistry, Indiana State University, Terre Haute, Indiana, 1951

Ph D. Physiology, Endocrinology, Purdue University, Lafayette, Indiana 1957-1960

Peer Review Publications and Artistic Performances (Partial List)

Articles

Wilson, E. Dale and M.X. Zarrow, 1958. Induction of Super Ovulation With HCG in Immature Mice Primed With PMS. *Anat. Rec.* 131:609 (Abs.)

Wilson, E. Dale and M.X. Zarrow, 1959. Comparison of Super ovulation in the Mouse and Rat. *Anat. Rec.* 134:653 (Abs.)

Sadler, W.A., E. Dale Wilson, R.E. Lewis, and M.X. Zarrow, 1959. Uterine Tumorigenesis in the Rabbit. *Anat. Rec.* 134:633.

Zarrow, M.X., and E. Dale Wilson, A. Lee Caldwell, J. Yochim, R.P. Sawin, 1960. Local Action of Placental Gestation on the Uterine Musculatures. *Fertility and Sterility* 11:370-378.

Wilson, E.D., M.N. Runner, M.X. Zarrow, 1960. The Influence of Diet, Litter Size, and Goitrogen on Body Weight and Superovulation in Mice and Rats. First International Congress of Endocrinology – Copenhagen. N. 3283, p. 573.

Zarrow, M.X., P.B Swain, S. Ross, V.H. Deneberg, Dr. Crory, E.D. Wilson, 1961. Maternal Behavior in the Rabbit: Endocrin Basis for Next Building. *J. of Reproduction and Fertility* 2:152-162.

Wilson, E.D. and M.X. Zarrow, 1961. An Electrical Device for Determining the Time of Oviposition in the Domestic Hen. *Poultry Science* 40:1648. No. 6.

M. X. Zarrow and Wilson E.D., 1961. The Influence of Age on Superovulation in the Immature Rat and Mouse. *Endocrinology* 69:851-855.

Wilson E. D. and M. X. Zarrow, 1961. A Comparison of Superovulation in the Mouse and Rat. *J. of Reproduction and Fertility* 3:148.

Wilson, E.D. and C.K. Chai, 1962. The Influence of Propylthiouracil and Thyroxin on Superovulation in Immature Mice. *J. of Endocrinology*, 24:431.

Wilson, E.D. and A.A. Dewees, 1962. Body Weights, Adrenal Weights, and Oestrous Cycles of Nutria. *J. of Mamma*. 43:362.

Mann, T. and E.D. Wilson, 1962. Biochemical Observations and the Male Accessory Organs of Nutria. *J. of Mamma*. 25:407.

Wilson E.D., M.N. Runner, M.X. Zarrow, 1963. The Effect of Diet and Litter Size on Superovulation in the Mouse and Rat. *J. of Reproduction and Fertility*. 5:179.

Wilson, E.D. and R. G. Edwards, 1963. Parturition and Increased Litter Size in Mice after Superovulation. *J. of Reproduction and Fertility* 5:179.

Edwards, R.G., E.D. Wilson, and R.E. Fowler, 1963. Genetic and Hormonal Influences on Ovulation and Implantation in Adult Mice Treated With Gonadotrophins. *J. of Endocrinology* 26:389.

Wilson, E.D. and Ralph R. Hathaway, 1963, Antibody Production by *Myocastor coypus*. *Texas Journal of Science*. 15:236.

Ferguson, Cecil and E.D. Wilson, 1963. Induced Ovulation in Nutria (*Myocastor coypus*). *Texas Journal of Science* 15:424.

Hale, Billie R. And E.D. Wilson, 1963. Size Dimorphism in the Sperm of *Myocastor coypus*. *The Texas Journal of Science*. 15:425.

Rogers, C. and E.D. Wilson, 1963. Influence of ACTH and Testosterone on Embryonic Chick Adrenals and Bursa of Fabricius. *Texas Journal of Science* 15:430.

Wilson, E.D. and William Gibbs, 1963. Thyroid Uptake and Whole Body Retention of I¹³¹ in Nutria. *The Texas Journal of Science*. 15:433.

Zarrow, M.X. and E. D. Wilson. Hormonal Control of the Pubic Symphysis of the Skomer Bank Vole (*Clethrionomys skomerenis*). *J. Endocrinology* 28:103-106

Wilson, E.D., William D. Gibbs, C.C. Lushbaugh, 1964. Thyroid Uptake and Whole Body Retention of I¹³¹ in Box Turtles. *Texas Reports of Biology and Medicine*. Vol. 22, No. 1

Wilson, E.D., M.X. Zarrow, Harry Lipscomb, 1964. Bilateral Bimorphism of the Adrenal Glands in the Coypus (*Myocastor coypus*, Molina) *Endo. U74U*:515.

Gibbs, W.D., E.D. Wilson, H.D. Hodges, and C.C. Lushbaugh. Comparative Study of Thyroid and Whole Body Retention of Iodine in Box Turtles. Second Annual Oak Ridge Radioisotopes Conference, April 19-22, 1964, US AEC Report TID – 7689, pp. 20-21.

McKown, m Ronnie, and E.D. Wilson, 1964. Population Distribution and litter Size of Nutria Captured at the Sheldon Reservoir. Texas Journal of Science (Abs.)

Ballard, P.D. and E.D. Wilson, 1964. Body and OS Penis Grwoth Rate in Nutria from Birth to Sexual Maturity. Texas Journal of Science (Abs.)

Webb, Sandra, Lynda Voswinkel, and E.D. Wilson, 1964. A Comparison of Serum Protiens of Migratory Geese and Domestic Geese by Paper Elecrophoresis. Texas Journal of Science (Abs.)

Mangum, Pattie and E.D. Wilson, 1964. The Effects of Ovariectomy on Pregnancy in the Nutria. Texas Journal of Science (Abs.)

Voswinkel, Lynda, Sandra Webb, E.D. Wilson, 1964. A Comparision of Serum Proteins of Nutria by Paper Electrophoresis. Texas Journal of Science (Abs.)

Bird, E.D., E.D. Wilson, J. Baenziger, W.E. Gibbs, 1968. Effect of L-Thyroxine Administration on Whole-Body Retention of Iodine-131 L-Thyroxine in Rats. Research Report – Oak Ridge Associated Universities, pp. 230-233.

Bird, E.D., David Mescher, E.D. Wilson, W.D. Gibbs, 1968. Effect of Oral Contraceptive on Whole Body Retention and Tissue Distribution of Copper – 67 in Female Rats. Research Reports – Oake Ridge Associated Universities, pp. 237-241.

Bird, E.D., E.D. Wilson, D. Mescher, J. Baenziger, W.D. Gibbs, 1968. Changes in Zinc-65 Partition Between Mother and Progeny During and After Pregnancy in Rats. Research Report – Oak Ridge Associated Universities, pp, 242-245.

Wilson, E.D. W. Gibbs, and C.C. Lushgaugh, 1969. The Distribution of Sex and Wiehgt in a Radomly Selected Population of *Terrapene carolina*. Research Report – Oak Ridge Associated Universities.

Wilson, E.D, 1970. What is the Scope of the Basic Sciences? Bull. Am. Assoc. of Basic Science Boards, Vol. 22.

Funded External Grants

I planned, organized, and submitted several proposals to agencies and foundations during the period of 1962-1967 for support of academic and research programs. Those that received favorable endorsement were as follows:

1. National Institutes of Health grant awarded to Dr. Wilson in the amount of \$30,000 to conduct research on the physiology of reproduction in rodents
2. American Philosophical Society awarded \$1200 to Dr. Wilson to conduct a research project.
3. Atomic Energy Commission gave \$10,000 to Dr. Wilson to conduct isotope Laboratory Improvement, 1965.
4. Office of Education in 1966 awarded Sam Houston State University a grant of \$192,000 to conduct a program under Title 5 part C Higher Education act of 1965 for training experienced elementary teachers in science areas. Wilson

- was the director. This program was one of two of this type in the nation. The program was applied for in 1967 and again in 1968 and was rewarded each time Dr. Wilson, Director.
5. Office of Education awarded Sam Houston State in 1966 a grant for \$42,000 to conduct a program under Title 5 part C Higher Education Act of 1965 for Prospective Teachers in Elementary Science. This was a two year program. The program was rewarded in 1967. Dr. Wilson, director.
 6. Office of Education awarded Sam Houston State in 1966 a grant for \$50,000 as college assistance in developing the Teacher Fellowship Program in Science. Dr. Wilson was associate director of this program.

Work or Professional Experiences

Teacher of the 5th and 6th grades at Rabb Grade School, Covington, Indiana, 1948-1950.

U.S. Navy, 1952-1955, Line Officer (Rank of LTJG). Served during the Korean Emergency as a Line Officer June 6, 1952 to September 29, 1955. United States Navy (Correspondence Course Evaluator for 18 months). (USS Navarro APA for 18 months. 22 years in the Naval Reserve. Retires as a Commander in the Naval Reserve.

Science Teacher and Basketball Coach, Perrysville High School, Perrysville, Indiana, 1955 - 1956.

Process Control Supervisor, Olin-Mathieson Chemical Corporation, Covington, Indiana, 1956-1957.

Graduate Teaching Assistant, 1958-1960 in Biology, Purdue University.

Assistant Professor of Biology, Southern Illinois University, Carbondale, Illinois, 1960-1961.

Associate Professor of Biology, Sam Houston State University, Huntsville, TX, 1962-1964.

Professor of Biology, Sam Houston State University, Huntsville, TX, 1964-1965.

Selected Danforth Associate in 1965 to continue indefinitely. A Danforth Associate primarily develops programs to improve student-faculty interaction.

Participant as a Visiting Scientist for the Texas Academy of Science in Texas Junior and Senior High School 1964-1967

Dean, College of Science, Sam Houston State University, 1965-1979. Professor of Biology, 1979-Present.

Acting Chairman of Biology Department, 1999-2000.

Consultant, National Institute of Health, 1971.

Advisor and Consultant to the Oak Ridge Population Research Center, Oak Ridge, Tennessee, 1972-1975.

Former member and Chairman of several Evaluation Committees to universities seeking reaccreditation by the Southern Association of Colleges and Schools.

Major advisor to 21 masters degree graduate students, and has served on dozens of master degree committees.

Biology representative for "Saturday at Sam" for as long as I can remember.

Honors and Awards

Valedictorian of the 1946 High School Graduating Class.

Awarded an academic scholarship to Indiana University

Texas Academy of Science Fellow

Research Fellowship awarded by the Lalor foundation, R.B. Jackson Memorial Laboratory, Bar Harbor, Maine, Summers 1959-1961

Postdoctoral Fellowship awarded by the U.S. State Department through the North Atlantic Treaty Organization for a year of study, teaching, and research at National Medical Research Institute, Mill Hill, London and Cambridge University, Cambridge England.

Sam Houston State Piper nominee in 1964. State-wide competition for distinguishing teaching awards based on excellence in teaching.

Research Fellow- Atomic Energy Commission, Oak Ridge Associated Universities, Summer 1962 and 1968.

Faculty Development Leave, January – June 1984, Animal Research Center, Cambridge England.

Pinnacle Award 2004 from Office of International Programs for outstanding International Student Advocate.

Other Competencies

Memberships

American Institute of Biological Sciences, American Society of Zoologists, English Society for the Study of Fertility, Fellow of the Texas Academy of Science, Endocrine Society, American Society of Animal Science, Wildlife Society, Society for the Study of Reproduction (Constitution Committee), Texas Water Conservation Association, American Association of Basic Science Boards (Vice-President, 1970, President, 1971 and 1972), Texas System of Natural Laboratories (Board of Directors), Family Planning Association of the Americas (Board of Directors), Sigma Xi, Texas Undergraduate Educators in Biological Sciences (TUEBS), National Audubon Society,

Founded Organizations and Success

Also, organizer/founder and first president of Sam Houston State Teachers College Sigma Xi0 chapter 1964. Details: Sigma X/RESA- Scientific Research Society of America promotes and supports students and faculty with grants in most all of the major universities in the United States. The formation of this society at Sam Houston State Teachers College was the beginning of emphasis on scientific research and a necessary step in our becoming a university. I was hired at SHSU in 1962 to be active and stimulate much needed research activities and selected as the first Dean of the College of Science by President Arleigh Templeton in 1965.

In 1965 I aided in organizing a chapter of Beta Beta Beta in the biology department. I am a charter member of the Delta Tau Chapter of Beta Beta Beta. This is a professional society for primarily undergraduate students dedicated to improving the understanding and appreciation of biological study and extending boundaries of human knowledge through scientific research.

In 1966 I was recommended by President Templeton to Governor Connally to be the state physiologist to serve on the Texas State Board of Examiners in the Basic Science. The Board prepared tests and examined medical and chiropractic students in six basic sciences (anatomy, physiology, chemistry, pathology, bacteriology, and public health). I was reappointed by Governor Smith to a new six year term in 1969. Elected Vice President of the Board in 1969 and President of the Board in 1972. I was reappointed to a new six year term in 1974 by Governor Biscoe. Our board became a member of the American Association of Basic Science Boards to which I was Vice-President 1970 and President 1971 and 1972.

Service on University Committees

Classroom and office assignment, 1966-1978

Athletics 1968-1973

Faculty Research 1968-1970

Pre-Professional Committee 1968-1970 (Chairman); 1971-1977 (Resource Person); 1999-2000 (Chairman)

Medical Service Fee Advisory Committee 1979-1982

University Standing Tenure Committee 1998

Faculty Tenure Hearing Committee, Chairman 2001-2002

Faculty Senate 2001-2002

SACS Institutional Effectiveness Committee

Distinguished Professor Review Committee 2003-2006

Service on Departmental Committees

PreProfessional Advisor – I have been an advisor to Biology Majors, Minors, and preprofessional students for my entire tenure at SHSU.

Undergraduate Scholarship Committee (several years and currently – 2006)

Department Chair Search Committee (on three different occasions since 1998-2005)

SACS Departmental Effectiveness Committee 1997

Textbook Selection Committee (several years and currently – 2006)

Faculty Search Committee (several years and currently – 2005)

Numerous Theses (21) and numerous theses Oral Committees

Biology Internship Program, Coordinator – 2004 – 2006

General Service To Sam Houston State University

On average, I have judged at least one high school science fair for the last 40 years. Most recently judged at Conroe, Willis, and Montgomery combined science fair held at Montgomery Community College, 1998-2006. Gave several presentations on Physical Geology (rocks) to fifth grade classes in Cypress Fairbanks School District 1998-2000. Volunteered science education to orphans and elementary schools in San Miguel de Allende, Guanajarto, Mexico over the past 6 years (1-2 trips each year).

Probably my most important contributions to Sam Houston State was during my 14 years as the first Dean of the college of Science. I was very instrumental in moving the departments of biology, chemistry, physics, mathematics, and agriculture from a teachers college mentality toward expanding the curriculum to become a university. During this period the university went from approximately 4,200 to 10,000 students. With the assistance of excellent department chairmen, we initiated the environmental science curriculum, by hiring Dr. James DeShaw, the geoscience curriculum, by hiring Dr. John McCoy. We expanded our faculty in numbers, and those with terminal degrees. As an example, in Biology in 1965 the faculty consisted of five with the departments of the College of Science 50 of the professors had two degrees from Sam Houston State and 33 professors had at least one degree from SHSU. A very inbred group. During the next 10 years we improved to nearly 85% professors with terminal degrees. A very exciting period in SHSU history.

I have actively recruited students to Sam Houston State for 44 years. Every trip I make and anywhere I go, I expound on the values of a SHSU education.

To expand national visibility of the university I was granted a year of leave of absence in 1971 to accept a position as Chief of the Population and Reproduction Grants Branch at the Institute of Child Health and Human Development of the National Institutes of Health in Bethesda, Maryland. With a 35 million dollar budget, and many university site visits I was able to stimulate and fund grants for research in mammalian reproduction.

Another service I have performed at SHSU is as an advisor to not only biology and preprofessional students, but as a general service advisor. Before the advisement center was established, each semester I advised a large number of students that had not declared a major.

I have served as a major theses advisor to 21 masters degree graduate students, and have served on dozens of masters degree committees.

I have taught between 15,000 – 20,000 students during my 44 years here at SHSU.

Student Hospitality

As finances have allowed I have actively recruited and supported students since 1989. Students that I have actually housed, furnished partial or all tuition, transportation, and free room and board are listed below:

Patrick Scott, Indiana

Varell Flowers, Belize

Sian Escobar, Belize

Tonya Escobar, Belize

Zelda Bentencourt, Belize

Christopher Johnson, Alaska

Marisa Kimbrell, Alaska

Ann Dubber, Alaska

Phillipa Herrera, Belize

Linda Lisa Gibson, Antigua

Enrique Delgadillo, Mexico

Shirley Carrias, Belize

Ann Provost, Texas

Semih, Topluk, Turkey

Stacy Escobar, Belize (9-2006)

Host family to:

Yuki Morita, Japan

Miyuki Moriyama, Japan

Reiko Masaki, Japan

Nahoko Minami, Japan

Uka Minamisawa, Japan

I currently have three Belizian grils and on Mexican boy living in my home. I have been host to over 15 such students over the last decade, many of whom have gone on to professional programs or graduate school after completing their undergraduate degrees here at SHSU.

In order to increase SHSU visibility in Belize I taught a two-week international field course on the natural history of Belize during the summer of 2005. 17 students had their horizons expanded by exploring Central American rain forests, snorkeling on coral reefs, and immersing themselves in Caribbean culture. By popular demand, the course is being offered again in the summer (2006).

Supervisor of These Masters Theses

1. Cynthia Rogers, May 1964. An Investigation of the Effect of Adrenocorticotrophic Hormone on the White Leghorn Embryonic Chick and the Influence of the Removal of the Bursa of Fabricius.
2. Bolton S. Williams, 1964. An Analysis of the Hematological Characteristics of *Myocastor coypus* Molina.
3. Cecil Ferguson, 1964. Preliminary Experiments on the Estrous Cycle of the Nutria (*Myocastor coypus* Molina).
4. Ronald Ray McDonald, 1965. An Attempt to Clarify the Taxonomy of the Box Turtle using Morphological, Ecological, and Physiological characteristics.
5. Myron Fougerson, May 1965. A Study of the Effect of Hypophysectomy on the Adrenals and Gonads of Anolis Carolinensis.
6. Paul D. Ballard, 1965. Studies in Nutria Under Laboratory Conditions with Special Attention Given to Factors Influencing Baculum Growth.
7. Richard J. Orts, 1965. An Investigation of the Effects of Antibiotics on the Adrenal Gland of the Mature Mouse.
8. Duwayne Mitchell, 1966. An Approach to the Problem of Alcoholism on the Basis of Altered Cellular Metabolism.
9. Michael Edward Lisano, 1966. Seasonal Variation in the Sizes, Weights, and Activities of the Endocrine Glands of the Fox Squirrel (*Sciurus rigor*)
10. Arthur V. Brown, 1966. A study of Dietary Effects on Serum, Plasma, Liver, and Aorta Total Cholesterol in Nutria (*Myocastor coypus* Molina)
11. Jon T. Watson, 1966. A Study of the Role of the Thymus in Spermatogenesis.
12. Marshall J. Mann, 1966. The Effect of Experimental Hyper and Hypoparathyroidisms on Serum Calcium and Phosphorus in Nutria (*Myocastor coypus*)

13. Earl O. Andrews, 1966. The Assay of Various Commercial Chorionic Gonadotrophins to Establish Potency.
14. Leona Longmire Gardner, 1967. A Preliminary Study of the Effects of Radiation on Nutria (*Myocastor coypus* Molina).
15. Leona Longmire Gardner, 1967. A Preliminary Study of the Effects of Radiation on the Nutria (*Myocastor coypus* Molina)
16. Billy James Freels, 1967. Evaluation of Thyroid Function in the Nutria (*Myocastor coypus*) Iodine 131 Thyroid Uptake Thyroid Scanning, and Autoradiography.
17. Robert Steve Wilson, 1968. The Luteinizing Hormone (LH) Content of the Anterior Hypophysis of the Mongolian Gerbil, *Meriones unguiculatus*.
18. Jane R. Ryan, 1993. Somatotropic, Estrogenic, and Gonadotropic Effects of the Plant Hormone Gibberellic Acid on the Immature Female Mouse.
19. Sunday S. Crider, 1994. Chemical Defense in *Morpho Peleides*.
20. Brett G. Dulap, 1994. Incidence of Giardia in Beaver (*Castor canadensis*) and Nutria (*Myocastor coypus*)
21. Sara Beth Turk, 2003. The Seasonal Timing of Follicular Development in the Mud Snake, *Farancia abacura*.

Community Activities

Active in community affairs for many years as a member of the Chamber of Commerce, Methodist Church, Masons, American Legion, and V.F.W. Frequent service in civic organizations as guest speakers, service clubs, and school activities.

Avid sportsman.

Active member in American Legion and Lions International