

## MURPHY

### *CURRICULUM VITA* SUSAN MURPHY

Our Lady of the Lake University  
Department of Biology  
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## EDUCATION

**1994** **Vertebrate Reproduction** (Zoology). University of Hawaii at Manoa, Honolulu, Hawaii.  
**Ph.D.**

*Dissertation title:* Functional Long-Term Storage of Spermatozoa in Oviducts of the Common House Gecko, *Hemidactylus frenatus*.

*Techniques used:* captive maintenance and breeding of lizards, microdissection techniques, microtechnique for and use of light microscope (histology and histochemistry), microtechnique for and use of both transmission and scanning electron microscopes, high performance liquid chromatography, membrane kinetics (labeled uptake procedures), *in vitro* gamete analysis, and black and white photographic technique.

**1984** **Biomedical Sciences** (Anatomy and Reproductive Biology). University of Hawaii at Manoa, Honolulu, Hawaii.  
**M.S.**

*Thesis title:* The effects of energy sources and osmolarity on the acrosome reaction and motility of guinea pig spermatozoa.

**1981** **Developmental Biology** (Minor: Biochemistry). Southwest Texas State University, San Marcos, Texas.  
**M.S.**

*Thesis title:* The effects of coffee on mouse development.

**1978** **Biology** (Minor: Psychology). Southwest Texas State University, San Marcos, Texas.  
**B.S.**

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### TEACHING EXPERIENCE

- 2005-present **Professor/Our Lady of the Lake University** [Lecture and/or lab for: *Anatomy and Physiology I and II, General Biology I and II, Comparative Vertebrate Anatomy, Organ Physiology, Biology of Reproduction, Introduction to Life Sciences (both traditional and weekend formats), Life Science for Teachers (K-12)*], **Selected Topics in Biology** (independent study), **Problems in Biology** (independent research), *Human Sexuality*. \*bold face indicates courses taught in last four years
- 2000-2005 **Associate Professor/Our Lady of the Lake University** [Lectures and lab for: *Anatomy and Physiology I and II, General Biology I and II, Comparative Vertebrate Anatomy, Organ Physiology, Introduction to Life Sciences (traditional and weekend formats), and Biology of Reproduction*. Lecture only: *FOCUS (first year experience course)*
- 1996-2000 **Assistant Professor/Our Lady of the Lake University** (*Anatomy and Physiology I and II – both lecture and lab, General Biology I and II – both lecture and lab, Comparative Vertebrate Anatomy – both lecture and lab, Organ Physiology – both lecture and lab, Biological Instrumentation – a lecture/lab course, and Introduction to Life Sciences – both lecture and lab*).
- 1995-96 **Instructor/Our Lady of the Lake University** (*Anatomy and Physiology lecture and lab, General Biology I - lecture, and Introduction to Life Sciences lab*),  
**Lecturer/University of Texas at San Antonio** (*Anatomy lecture, Histology lab*).
- 1993-95 **Instructor/Hawaii Pacific University** (*Anatomy and Physiology lecture and lab, Introductory Biology lecture*).
- 1993 **Instructor/Windward Community College** (*General Biological Science lecture and lab*).
- 1986-87 **Guest lecturer/Hawaii Pacific University** (*General Biology*).
- 1984-90 **Graduate Teaching Assistant/University of Hawaii at Manoa** (*General Science, Introductory Zoology, Vertebrate Embryology, Experimental Embryology, Microtechnique - labs*).
- 1985-summer **Instructor/Iolani School, Honolulu, Hawaii** (*Biology for accelerated program*).
- 1980-81 **Instructor/Southwest Texas State University** (*General Biology, Anatomy and Physiology - lectures*).
- 1977-80 **Undergraduate Teaching Assistant/Southwest Texas State University** (*Anatomy and Physiology, Vertebrate Embryology, Cell Physiology - labs*).

### RESEARCH AND CONSULTANTSHIPS

- 1999 **Technical Consultant** (Dr. J. Koke/Dept. of Biology, SWTSU). Assisted graduate student in microdissection techniques for electron microscopy.
- 1994-95 **Research Technician** (Dr. R. Kinzie/Dept. of Zoology, UH/M). Histologically prepared, sectioned, and stained coral tissues. Paid position.
- 1992-93 **Research Technician** (Dr. G. de Couet/Dept. of Zoology, UH/M). Embedded and sectioned *Drosophila* for immunofluorescence assays using light microscopy. Paid position.  
**Research Technician** (Dr. J. Randall/Bishop Museum, Oahu, HI). Embedded, sectioned, and stained boxfish tissue. Paid position.  
**Technical Consultant** (Dr. G. Ahearn/Dept. of Zoology, UH/M). Trained Honors student in microtechnique for immunofluorescence assays using light microscopy.  
**Research Technician** (Dr. F. Dobbs/Dept. of Oceanography, UH/M). Sectioned, stained, and photographed resin-embedded copepods. Paid position.
- 1991 **Technical Consultant** (Dr. R. Ratdke/Dept. of Oceanography, UH/M). Assisted postdoctoral and undergraduate students in microtechnique for light microscopy.  
**Research Technician** (Dr. T. Clarke/Hawaii Institute of Marine Biology, Kaneohe, HI). Embedded, sectioned, and stained jackfish ovaries. Paid position.

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### RESEARCH AND CONSULTANTSHIPS, cont.

- 1990           **Collaboration** (Dr. S. Brown/Dept. of Psychology, UH/Hilo). Performed *in vitro* analysis of lizard sperm; embedded, sectioned, stained, and histologically analyzed reproductive tissues.  
**Technical Consultant** (Dr. S.R. Haley/Dept. of Zoology, UH/M). Trained undergraduate student in microtechnique for light microscopy.
- 1982-84       **Research Assistant** (Dr. Ryuzo Yanagimachi/Dept. of Anatomy and Reproductive Biology, UH/M). Performed *in vitro* gamete experiments on mammalian spermatozoa.

### DIRECTED STUDENT RESEARCH/MENTORING (OLLU)

#### Faculty mentor; supervised the following selected topics reports:

- 2022   Caleb Barrera (Fall): *Pathologist Assistants Studies*  
2019   Marissa Rivas (Spring): *Plastics as Pollutants*  
2017   Kane Mata (Spring): *Disease and Natural Selection*  
          Sydney Coulter (Spring): *Hearing Loss*  
2015   Brianna Burtone (Spring): *Parameters of the Nursing Profession*  
2014   Nadia Rogeness (Spring): *Control of Nosocomial Infections*  
2013   Jeffrey Cuellar (Spring): *Colitis as a Disease*  
          Amanda Lozano (Spring): *Review of Stem Cell Research*  
          Jasmine Martinez (Spring): *Survey: TX Nursing Programs*  
2012   Kendra Luna (Spring): *Human Vestigial Structures*  
2009   Carmen Velez (Spring): *Toxic Effects on Reproduction*

#### Faculty mentor; trained and supervised the following undergraduate research projects:

- 2022   Oscar Rivera (Spring and Summer): *Temperature and Planaria Regeneration*  
2021   Rachel Woodbury (Fall): *Emotions and Heart Rate* (IRB approval)  
2019   Marissa Rivas (Spring): *Microscopic Aquatic Predators* (completed for Dr. Cary Guffey)  
          Audrey Valdez (Summer-Fall): *Art in Biology*  
2014   Victoria Saucedo (Summer-Fall): *Manipulating C. elegans*  
          Jasmine Fuller (Summer-Fall): *Manipulating C. elegans*  
2011   Debbie Sepulveda (Spring-Summer): *Aloe vera Exudate*  
          Katharine Kirsch (Spring-Summer): *Hydra as a Model Organism* (received Flashman Grant as partial funding)  
          Stephen Dunphey (Spring-Summer): *Regeneration and Memory*  
2009   Mariana Juarez (Fall): *Observations of the Brown Hydra*  
          Michelle Flores (Summer): *Drosophila melanogaster: From Egg to Fly*  
          Sara Medina (Summer): *Observation of the Artemia Life Cycle*  
          Debbie Sanjur (Summer): *Cultured Pond Water Fauna*  
          Estevan Rivas (Summer) – *Obtaining Biological Images* (McNair)  
          Audrey Lammers (Spring): *Embryology of Betta splendens* (received Flashman Grant as partial funding)  
2002   Melissa Gonzalez (Spring): *Audiovisual Stimulation and the ECG*  
2000   Deborah Almarez (Spring-Summer): *Oviductal Sperm Storage in Female Hemidactylus turcicus* (Family Gekkonidae).

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### DIRECTED STUDENT RESEARCH/MENTORING (OLLU), cont.

#### Faculty mentor and supervisor for the following student research assistants under SMR3 grant:

- 2013 Danielle Herrera (analysis of embedded course assessments)
- 2012 Danielle Herrera (analysis of embedded course assessments)
- 2010 Estevan Rivas (prepared graphic analysis of embedded course assessments)  
Mario Hernandez (summarized videos/prepared student handouts)

Faculty mentor for student (Diana Pino-Sands) participating in the University of Texas Preparing Future Faculty Internship Program (2002)

### PUBLICATIONS

- Murphy-Walker, Susan**; editor (2003). *FOCUS: Strategies for Success*, Wadsworth Publishing Company.
- Brown, Susan G., and **Susan Murphy-Walker** (1996). Behavioral Interactions Between a Rare Male Phenotype and Female Unisexual *Lepidodactylus lugubris*. *Herpetological Journal* 6:69-73.
- Murphy-Walker, S.G.** and S.R. Haley (1996). Functional Sperm Storage Duration in Female *Hemidactylus frenatus* (Family Gekkonidae). *Herpetologica* 52(3):365-373.
- Murphy, S.J.**, E.R.S. Roldan, and R. Yanagimachi (1986). Effects of Extracellular Cations and Energy Substrates on the Acrosome Reaction of Precapacitated Guinea Pig Spermatozoa. *Molecular Reproduction and Development* 14(1):1-10.
- Murphy, Susan J.** and Ryuzo Yanagimachi (1984). The pH-Dependence of Motility and the Acrosome Reaction of Guinea Pig Spermatozoa. *Gamete Research* 10(1):1-8.
- Murphy, S.J.** and C.P. Benjamin (1981). The Effects of Coffee on Mouse Development. *Microbios Letters* 17(66):91-100.

### ABSTRACTS

- Murphy-Walker, Susan** (1994). Oviductal Sperm Storage Potential in *Hemidactylus frenatus* Lizards (Gekkonidae). *Pacific Science* 48(2):205.
- Murphy-Walker, S.** (1990). Sperm Storage in Female *Hemidactylus frenatus* lizards (F. Gekkonidae). *Amer. Zool.* 30(4):77A.

### PRESENTATIONS/WORKSHOPS

- 2024 Presented poster (with recording) of *Use of Gyotaku in the Comparative Anatomy Lab as a UDL Experience*, Magna Publications 2024 Teaching Professor Online Conference (October 2024)  
Presented *Preparing to Teach a Course* for University Teaching Excellence Course (IRACDA grant: K12 GM111726 – Spring, UTHealth, San Antonio, TX)
- 2023 Podcast presentation for Anatomy in Clay Learning System (3-22-22)  
Presented *Preparing to Teach a Course* for University Teaching Excellence Course (IRACDA grant: K12 GM111726 – Spring, UTHealth, San Antonio, TX)
- 2022 Presented *Preparing to Teach a Course* for University Teaching Excellence Course (IRACDA grant: K12 GM111726 – Spring, UTHealth, San Antonio, TX)
- 2020 Presented *Preparing to Teach a Course* for University Teaching Excellence Course (virtual) (IRACDA grant: K12 GM111726 – Spring, UTHealth, San Antonio, TX)
- 2019 Presented *Preparing to Teach a Course* for University Teaching Excellence Course (IRACDA grant: K12 GM111726 – Fall, UTHealth, San Antonio, TX)  
Presented *Anatomy and Clay Learning System workshop* (facial muscles and educational tips) for the national Human Anatomy & Physiology Society (HAPS) conference (May, Portland, OR)  
Presented *Anatomy and Clay Learning System workshop* (brain, spinal cord, select muscles) for the national Project Lead the Way (PLTW) Summit (November, San Antonio, TX)  
Hosted Anatomy in Clay® workshop (whole body, level I; October, OLLU)

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### PRESENTATIONS/WORKSHOPS, cont.

- 2018 Presented *Preparing to Teach a Course* for *University Teaching Excellence Course* (IRACDA grant: K12 GM111726 – Fall, UTHealth, San Antonio, TX)  
Presented *Digital Dissection Portfolios As Team-Based Learning Tools* for the national Lilly Conference on Evidence-Based Teaching and Learning (January, Austin, Texas)  
Presented *Innovative Hands-On Teaching: Anatomy and Clay Learning System* workshop (respiratory system) for the national Human Anatomy & Physiology Society (HAPS) conference (May, Columbus, OH)  
Presented *Photographic Portfolios as Team-Based Learning Tools for Anatomy* for the Conference for the Advancement of Science Teaching (CAST; November, Fort Worth, TX)  
Hosted Anatomy in Clay® workshop (whole body, level I; October, OLLU)
- 2016 Presented *Preparing to Teach a Course* for *University Teaching Excellence Course* (IRACDA grant: K12 GM111726 – Fall, UTHealth, San Antonio, TX)
- 2014 Presented *New MCAT areas of competence: How will the 'Arts' transform the MCAT exam and student preparations for the health professions?* for the 2014 Center for Mexican American Studies and Research (CMSAR) Conference
- 2012 Designed and hosted workshop entitled *Dissection-free Anatomy Teaching Techniques* (OLLU)  
Hosted Anatomy in Clay® workshop (OLLU)
- 2011 Presented 90-minute biological imaging workshop entitled: *The Digital Camera: Never Leave Home Without It!* at Lilly West Conference (University Teaching; CalPoly Technical Institute, Pohnoma, CA)
- 2010 Presented 45-minute workshop entitled *Digital Cameras and Microscopes – A Dynamic Duo for Data Collection* at the Science Teachers Association of Texas (STAT) Conference (November; Houston, TX)  
Presented 45-minute workshop entitled *Digital Cameras and Microscopes – A Dynamic Duo for Data Collection* for Science Education (SCID) students (OLLU)

### OTHER PROFESSIONAL ACTIVITY/DEVELOPMENT

- 2024 Attended *TAAHP/JAMP meeting* (February, El Paso, TX)  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
SABER\*IRACDA teaching mentor (Bianca Romo)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor - OLLU
- 2023 Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
SABER\*IRACDA teaching mentor (Emily Lancaster)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor - OLLU
- 2022 Attended *TAAHP/JAMP meeting* (February, San Antonio, TX)  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor - OLLU
- 2021 Attended *TAAHP/JAMP meeting* (February, virtual, TX)  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
SABER\*IRACDA teaching mentor (Keith Ashcraft)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor – OLLU

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### OTHER PROFESSIONAL ACTIVITY/DEVELOPMENT, cont.

- 2020 Attended *TAAHP/JAMP meeting* (February, Galveston, TX)  
*TAAHP Secretary of Executive Council*  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
SABER\*IRACDA teaching mentor (Keith Ashcraft)  
SABER\*IRACDA teaching co-mentor (Alison Clark)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor - OLLU
- 2019 Attended *TAAHP/JAMP meeting* (February, Lubbock, TX)  
*TAAHP Secretary of Executive Council*  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
SABER\*IRACDA teaching mentor (Megan Borrer)  
SABER\*IRACDA teaching co-mentor (Alison Clark)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor - OLLU
- 2018 Attended *TAAHP/JAMP meeting* (February, College Station, TX)  
*TAAHP Secretary of Executive Council*  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
SABER\*IRACDA teaching mentor (Megan Borrer)  
SABER\*IRACDA teaching mentor (Rebekah Mahoney)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor - OLLU
- 2017 Attended *TAAHP/JAMP meeting; elected Secretary of Executive Council* (February, Houston, TX)  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
SABER\*IRACDA teaching mentor (Rebekah Mahoney)  
Lecturer; *Knowing Your Audience*, for SABER-IRACDA UTEC course (September, San Antonio, TX)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU  
LECOM faculty advisor - OLLU
- 2016 Attended *TAAHP/JAMP meeting* (February, San Antonio, TX)  
Attended *JAMP faculty director's meeting* (August, San Antonio, TX)  
Attended CAST conference (November, San Antonio, TX)  
Received Title V grant dollars for free student hearing tests (OLLU)  
Visited Dell Medical School for tour (Austin, TX)  
Lecturer; *Knowing Your Audience*, for SABER-IRACDA UTEC course (September, San Antonio, TX)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor - OLLU
- 2015 Attended *TAAHP/JAMP meeting* (Fort Worth, TX)  
Attended *JAMP faculty director's meeting* (San Antonio, TX)  
Attended CAST conference (Fort Worth, TX)  
Participated in JAMP JFD workshop (Kerrville, TX)  
Lecturer; *Knowing Your Audience*, for SABER-IRACDA UTEC course (San Antonio, TX)  
Workshop Panelist; *Effective Teaching Practices* (Trinity University, San Antonio, TX)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU

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### OTHER PROFESSIONAL ACTIVITY/DEVELOPMENT, cont.

- 2014 Participated in State Teachers Association of Texas (STAT) Summer Leadership Academy (Galveston, TX; summer)  
Attended *TAAHP/JAMP meeting* (Houston, TX; spring)  
Attended *JAMP faculty director's meeting* (San Antonio, TX)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor - OLLU
- 2013 Attended *TAAHP/JAMP meeting* (Dallas, TX)  
Attended *JAMP faculty director's meeting* (San Antonio, TX)  
Designed laboratory exercise for Human Anatomy/Physiology: *Human Heart and Vessels in Clay* (OLLU)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor – OLLU
- 2012 Attended Anatomy in Clay® workshop (New Orleans)  
Designed laboratory exercise for Human Anatomy/Physiology: *Human Muscles in Clay* (OLLU)  
Reviewer for Kardong *Comparative Vertebrate Anatomy* Lab Manual (McGraw Hill; two chapters, summative evaluation)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor - OLLU
- 2011 Attended *TAAHP/JAMP meeting* (Galveston, TX)  
Attended *JAMP faculty director's meeting* (San Antonio, TX)  
Attended *CAST conference* (November, Dallas, TX)  
Designed new laboratory exercise for Biology I labs (majors' course): *Microscopes and Cells* (OLLU)  
Designed new laboratory exercise for Biology I labs (biology majors): *Staining Cells* (OLLU)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor - OLLU
- 2010 Attended *NAAHP meeting* (Atlanta, GA)  
Attended *TAAHP/JAMP meeting* (Lubbock, TX)  
Attended *JAMP faculty director's meeting* (San Antonio, TX)  
Co-created Career Seminar Series (with Dr. Sara Volk; OLLU)  
Attended *TSU Biology Seminar Series: Jerry Coyne, speaker* (San Marcos, TX)  
Attended *WISE meeting* (San Marcos, TX)  
Redesigned Biology 2422 curriculum (both lecture and lab; OLLU)  
Added Oral Communication Skills and Values to BIOL 2422 (Comparative Anatomy of Vertebrates, OLLU)  
Added Oral Communication Skills and Values to BIOL 3463 (Biology of Reproduction, OLLU)  
JAMP Faculty Director – OLLU  
OLLU Health Professions Advisor - OLLU
- 2009 Attended *TAAHP/JAMP meeting* (College Station, TX)  
Attended *JAMP faculty director's meeting* (San Antonio, TX)  
JAMP Faculty Director – OLLU  
Appointed as OLLU Health Professions Advisor - OLLU
- 2008 Attended *Society for the Study of Reproduction (SSR) Conference* (Hawaii)  
Attended *World Congress of Reproductive Biology* (Hawaii)  
Appointed as JAMP Faculty Director - OLLU
- 2005 *Managing your Anatomy & Physiology Course eSeminar* participant (Wiley & Sons, Publishers), San Antonio, TX

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### GRANTS/HONORS/AWARDS

- 2024 Chosen as teaching co-mentor for SABER scholar (Dr. Bianca Romo; IRACDA grant)
- 2022 Chosen as teaching co-mentor for SABER scholar (Dr. Emily Lancaster; IRACDA grant)
- 2021 Francine Fleming Award for Teaching Excellence (OLLU)
- 2019 Chosen as teaching mentor for SABER scholar (Dr. Keith Ashcraft; IRACDA grant)  
OLLU-vation award (“Picture This”) – OLLU
- 2018 Chosen as teaching mentor for SABER scholar (Dr. Megan Borrer; IRACDA grant)  
Chosen as teaching co-mentor for SABER scholar (Dr. Alison Clarke; IRACDA grant)
- 2017 Chosen as teaching mentor for SABER scholar (Dr. Rebekah Mahoney; IRACDA grant)
- 2014 SMR<sup>3</sup> curriculum revision grant (OLLU)
- 2011 Flashman Award for undergraduate research (OLLU)  
Hearst Grant to attend Lilly West Conference (University teaching) in Ponomo, CA
- 2010 SMR<sup>3</sup> curriculum revision grant (OLLU)  
Travel grant to attend NAAHP meeting in Atlanta, Georgia (NAAHP)
- 2009 Flashman Award for undergraduate research (OLLU)
- 2004 Who’s Who Among America’s Teachers
- 2002 Title III Technology Tools for Teaching Grant, OLLU.
- 2001 Title V Course Re-Design Grant, OLLU.
- 2000 Most Valuable Advisor; Alpha Phi Omega, OLLU chapter

### COMMUNITY SERVICE/ACTIVITIES (\*by invitation)

- 2018 \*Career Day presentation at Pearce Elementary, San Antonio, TX  
\*Science Day presentation at Crestview Elementary, San Antonio, TX
- 2016 \*Science Night presentation at Ed Franz Elementary, San Antonio, TX  
\*Science Night presentation at Crestview Elementary, Converse, TX  
\*LULAC (Upward Bound) workshop with students at OLLU, San Antonio, TX
- 2015 \*Science Night presentation at Aue Elementary, San Antonio, TX  
\*Science Night presentation at Ed Franz Elementary, San Antonio, TX
- 2013 \*Science Night presentation at Crestview Elementary, Converse, TX  
\*Poetry and Science Workshop (6 sessions over six days) at LBJ Elementary, San Antonio, TX
- 2011 \*Science Night presentation at Crestview Elementary, Converse, TX  
Served as tour guide (zoo and lunch) for Sigma Zeta Convention (OLLU)  
Designed and presented a one-week science course for San Antonio Academy, San Antonio, TX (*The Five Kingdoms of Life*)
- 2010 Designed and presented a one-week arts/craft course for San Antonio Academy, San Antonio, TX  
(using Japanese washi paper; two sections)  
\*Prepared and presented a power point lecture on the art of making washi (Japanese paper) eggs, Anime Convention, OLLU  
\*Science Night presentation at Crestview Elementary, Converse, TX  
Designed and presented two sections of a one-week summer art course (*Washi Wonder*) at San Antonio Academy, SA, TX
- 2009 \*Science Night presenter at Crestview Elementary, Converse, TX  
Photographed Nimitz Middle School Choir (singing National Anthem at Spurs game). Photo was used by NEISD (NorthEast Independent School District) as part of their newsletter; March  
Created and distributed a CD to 4<sup>th</sup> grade teachers at Crestview Elementary, Converse, TX  
Plant and Animal Adaptations which included personal videos of various organisms)

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- 2006 \*Career Day (3 presentations) at Olmos Elementary, San Antonio, TX  
\*Career Day (6 presentations) at Pearce Elementary, San Antonio, TX  
\*Poetry and Science Workshop (8 sessions over two weeks) at LBJ Elementary, San Antonio, TX
- 2005 \*Career Day (3 presentations) at Olmos Elementary, San Antonio, TX  
\*Clean Air Challenge Workshop presenter (Enterprise for Education, Santa Monica, CA), OLLU  
\*Designed and presented classroom activities for 3<sup>rd</sup> grade classes at Olmos Elementary, San Antonio, TX (bogs and bog plants, fish behavior and design)
- 2004 \*Designed and presented microscope workshop for 2<sup>nd</sup> grade teachers at Olmos Elementary, San Antonio, TX. (provided certification)  
\*Designed and presented a five-part series of classroom activities for 2<sup>nd</sup> grade classes at Olmos Elementary, San Antonio, TX. (comparative analysis of skeletons, plant classification, invertebrate behavior and regeneration)
- 2003 \*Presented Clean Air Workshop activity to in-service teachers; OLLU.  
\*Designed and presented *Marvelous Mucus* to CoMet program students; OLLU. (4 presentations).

## REFERENCES

- Dr. James Hall, Dept. of Biology, Our Lady of the Lake University, 411 SW 24<sup>th</sup> St., San Antonio, TX 78207. 210-434-6711.
- Dr. Joseph R. Koke, emeritus. Dept. of Biology, Texas State University/San Marcos, San Marcos, TX 78666. 512-245-2178.
- Dr. Samuel R. Haley, emeritus. Dept. of Zoology, University of Hawaii at Manoa, 152 Edmondson Hall/2538 The Mall, Honolulu, HI 96822. 808-956-6170.