

CURRICULUM VITAE

NAME: **MARVIN MICHAEL FRANCIS LUTNESKY**

BIRTHPLACE: Inglewood, CA

MARITAL STATUS: Married, four children.

EDUCATION

University of Hawaii	1992	Ph.D. (Zoology)
San Diego State University	1984	M.S. (Biology)
San Diego State University	1981	B.S. (Zoology)

EMPLOYMENT (reverse chronological order)

Chair, Department of Science and Mathematics, Texas A&M University – San Antonio (2016 – present). Duties: Leadership and management of the Department of Science and Mathematics; including budgeting, curriculum changes, i.e., quality of education, and supervision of faculty, staff, and students.

Professor of Biology, Department of Science and Mathematics, Texas A&M University – San Antonio (2016 – present; tenured 2016). Duties: Teach upper division courses in animal physiology, herpetology, and ichthyology. Responsibilities also include research in behavioral ecology, supervision of student research, advising of students, and service to the University through committee work.

Professor of Biology, Department of Biology, Eastern New Mexico University (2004 – 2016). Duties: Teach a freshman course in general biology, and upper division and graduate courses in animal behavior, general ecology, herpetology, ichthyology, fisheries management, and limnology & freshwater biology. Responsibilities also include research in behavioral ecology, supervision of graduate student research, advising undergraduate students, and service to the University through committee work.

Director, Natural History Museum (NHM), Eastern New Mexico University (2002 – 2016). Duties: Manage the NHM, including budgeting, curators, and public outreach.

Curator of Fishes, Amphibians & Reptiles (1998 – 2016), Natural History Museum; Eastern New Mexico University. Duties: curation of the collections of fishes, amphibians, and reptiles at the ENMU NHM.

Curator of the Natural History Museum Exhibit (1998 – 2016), Natural History Museum; Eastern New Mexico University. Duties: curation of live animals (ectotherms) in the museum exhibit at the ENMU NHM.

Chair, Department of Biology, Eastern New Mexico University (1998 – 2013). Duties: Leadership and management of the Department of Biology; including budgeting, curriculum changes, i.e., quality of education, and supervision of faculty, graduate students, and staff.

Associate Professor, Department of Biology, Eastern New Mexico University (1999 – 2004). Duties: (see Professor, above).

Assistant Professor, Department of Biology, Eastern New Mexico University (Fall 1992 – 1999; tenured 1996). Duties: see Professor above, however duties also included teaching of General Biology of Animals, and General Biology for General Education.

Curator of Fishes (1992 – 1998), NHM, Eastern New Mexico University. Duties: (see Curator of fishes, amphibians, and reptiles above, pertaining to fishes only).

Research Assistant, Hawaii Institute of Marine Biology, (Fall 1987 - Summer 1991). Duties: Design assays for indication of sublethal stress in mahimahi (*Coryphaena hippurus*), conduct experiments, co-author papers, and supervise other assistants.

Teaching Assistant, University of Hawaii (Fall 1984 - Spring 1987). Duties: Instruction of laboratory courses in animal behavior, vertebrate zoology, and histology. Responsibilities included short lectures, lab design, lab set-up, and dissection of specimens.

Graduate Student Representative to the Faculty, Department of Zoology, University of Hawaii, (elected by peers, Fall 1985 - Spring 1986). Duties: Member of admissions and facilities committees, assisted students in communication with faculty.

Teaching Assistant, San Diego State University (Fall 1982 - Spring 1984). Duties: Instruction of laboratory courses in general biology. Responsibilities: short lectures, lab design, lab set-up, and dissection of specimens.

Seasonal Aid, California Department of Fish and Game (Jan. 1981 - Sept. 1982). Duties: Identification of California fishes, and interviewing general public for catch data.

Nature Director, Boy Scouts of America, Camp Hual-Cu-Cuish, San Diego County Council (Summer 1980). Duties: Taught environmental science subjects needed for eagle scout rank.

SIGNIFICANT SERVICE APPOINTMENTS (reverse chronological order)

Chair, A&M – SA Quantitative Reasoning Advisory Committee (QRAC, 2019 – present).
Duties: guide the implementation of the A&M – SA’s Quality Enhancement Plan (QEP) required for SACSCOC accreditation.

Committee Member, A&M – SA JagTracks Committee (2016 – 2019). Duties: guide JagTracks courses and selection of JagTracks instructors.

Committee Member, ENMU Budget and Planning Committee (2011 – 2016). Duties: gives input and feedback regarding administrative use of funds at ENMU.

Committee Member, ENMU Undergraduate Admissions and Standards Committee (2011 – 2014). Duties: recommends actions to the VPAA regarding students not meeting university scholarly standards; reviews undergraduate standards policy.

Committee Member, ENMU Scholarship and Finance Committee (2011 – 2014). Duties: recommend actions regarding financial aid and scholarships regarding students not meeting university scholarly standards, completion rates, or deadlines.

Steering Committee Member (2004 – 2012), NIH funded New Mexico Idea Networks of Biomedical Research Excellence (INBRE)

Senator, Faculty Senate, Eastern New Mexico University (2002 – 2004). Duties: represent the viewpoint of the Department of Biology in the Faculty Senate in the university governance process.

Committee Member, Lesser Prairie Chicken Peer-review Committee (2000 – 2003), NM Department of Game & Fish.

Panel Member: New Mexico Wetlands Task Force (1996 – 1997), New Mexico Environment Department.

Committee Member, ENMU Graduate Committee (1994 – 2000). Duties: review of Graduate School policies; recommend action to the VPAA regarding graduate students not meeting standards.

Task Force Member, ENMU Science Teaching Needs Task Forces (1994 – 1996). Duties: Guide ENMU concerning renovation of Roosevelt Hall and the future science needs of the students of ENMU.

Committee Member (1992 – 1998), Graduate Committee, Graduate School, Eastern New Mexico University. Duties: coordinate activities of graduate students and recommend policy to the graduate dean.

AWARDS & HONORS

- 2019. Distinguished Emeritus Professor Award, Eastern New Mexico University (ENMU) Foundation, Portales, NM 88130.
- 2017. Emeritus Professor of Biology, Eastern New Mexico University, Portales NM 88130 (retired in 2016 after 24 years of service to the University).
- 2015a. ENMU Presidential Award for Excellence in the category of Research / Scholarly Creative Activity.
- 2015b. Finalist, ENMU Presidential Award for Excellence in the category of Teaching.
- 2015c. Finalist, ENMU Presidential Award for Excellence in the category of Advising.
- 2013a. Outstanding Chair and Colleague clock and plaque, with engraved signatures, for 15.5 years of service to the Department of Biology, ENMU.
- 2013b. Finalist, ENMU Presidential Award for Excellence in the category of Teaching.
- 2012. Finalist, ENMU Presidential Award for Excellence in the category of Research / Scholarly / Creative Activity.
- 2010. Elected as a member of Phi Kappa Phi.
- 2008a. Outstanding Advisor of the Year. Student Organizations (Greyhound MMA), Eastern New Mexico University.
- 2008b. Instructor of the Year. Eastern New Mexico Taekwon Do, Portales, NM.
- 2002a. National Certificate of Excellence, Eastern New Mexico Chapter, Sigma Xi, the scientific research society, for outstanding chapter performance (year ending 30 June, 2002, i.e. year I was President of Sigma Xi).
- 2002b. ENMU Merit Pay recipient (second offering of merit pay at ENMU in my tenure at ENMU).
- 2000. ENMU Merit Pay recipient (first offering of merit pay at ENMU in my tenure at ENMU).
- 1999. *Who's Who in Science and Engineering*.
- 1996. Pitelka Award (second place [honorable mention]) from the International Society for Behavioral Ecology for the publication: "Density-dependent protogynous sex change in territorial-haremic fishes: models and evidence. *Behavioral Ecology* 5:375-383."
- 1992a. National Research Service Award: National Institutes of Health. A postdoctoral fellowship to study behavioral control of sex determination in fishes at U. C. Berkeley. (funded, but declined to take a tenure-track position at ENMU).
- 1992b. Outstanding Research Award (Dissertation Award): Graduate Student Organization, University of Hawaii.
- 1990. Achievement reward for college scientists: the ARCS foundation.

GRANTS & CONTRACTS

2018 – Present. Gulf Coast Inventory and Monitoring Network, National Park Service. Amphibian Survey at the San Juan Mission, San Antonio, TX. (\$3000/yr.).

- 2015a. New Mexico Water Resources Research Institute, New Mexico State University, Las Cruces, NM. Effects of turbidity on shoaling in cyprinid fishes of New Mexico using automated object tracking (with S. Michael)(\$6000).
- 2015b. Internal Research Grant, Eastern New Mexico University, Portales, NM “Dynamics of isolated pools on the periphery of the Pecos River, NM” (with K. Cradock)(\$2965).
- 2014a. Internal Research Grant, Eastern New Mexico University, Portales, NM “A preliminary study of riffle-crossing and pool-entrapment of fishes from the Pecos River, NM” (with K. Cradock)(\$2995).
- 2014b. New Mexico Water Resources Research Institute, New Mexico State University, Las Cruces, NM. Effects of turbidity on group cohesion in sand shiners and red shiners from the Pecos River in New Mexico (with S. Michael)(\$6000).
- 2013a. Internal Research Grant, Eastern New Mexico University, Portales, NM “The role of enclosed cognition on the in-class student behavior in both a non-majors and a freshman majors biology course.” (with K. Cradock and M. Varela)(\$2142).
- 2013b. “Stream simulation tank for the study of stream fishes and enhancement of undergraduate research at ENMU.” Department of Education HSI STEM Grant; K. Cradock, P.I. (\$40K).
2011. Internal Research Grant, Eastern New Mexico University, Portales, NM “The Influence of Electrofishing on Feeding Rates and locomotion in the Red Shiner, *Cyprinella lutrensis*.” (\$2956).
2010. Internal Research Grant, Eastern New Mexico University, Portales, NM “Effects of electrofishing on reproduction in the red shiner, *Cyprinella lutrensis*. (\$2964).
- 2004a. Western Alliance to Expand Student Opportunities (WAESO). “Computer simulation for predicting optimization of social interaction in territorial fishes” (with T. Brown) (\$1755).
- 2004b. Internal Research Grant, Eastern New Mexico University, Portales, NM “Automated fish tracking system for behavioral ecology research ” (with T. Brown) (\$2946).
- 2003a. Western Alliance to Expand Student Opportunities (WAESO). “Computer simulation of territorial fish movements” (with T. Brown) (\$1755).
- 2003b. Internal Research Grant, Eastern New Mexico University, Portales, NM. “Self-inhibition in the spawning behavior of the red shiner, *Cyprinella lutrensis* (\$2795).
- 2003c. Internal Research Grant, Eastern New Mexico University, Portales, NM. “Computer Simulation of Sexual Plasticity in Coral-reef Fishes.” (with T. Brown) (\$1675).
- 2003d. Arrow Plastics Corporation donation for work on social behavior of fishes (\$290 of plastic plates).
2002. Western Alliance to Expand Student Opportunities (WAESO). “Computer Simulation of Sexual Plasticity in Coral-reef Fishes.” (with T. Brown) (\$1756).
- 2001a. New Mexico EPSCoR for ENMU: 09/01/2001 – 08/31/2004. National Science Foundation. Center for Natural Resource Analysis within New Mexico Experimental Program to Stimulate Competitive Research (EPSCoR). (Lead PI’s J.R. Gosz, A.W. Powell, et al., J. Frey lead PI at ENMU; \$131,002 portion of ca \$ 3,000,000 total grant)
- 2001b. Internal Research Grant, Eastern New Mexico University, Portales, NM. “Preliminary investigation of breeding-situation quality in a fish.” (\$3468)

1999. Internal Research Grant, Eastern New Mexico University, Portales, NM. "Investigation of the influence of temperature and social-group composition on sex determination in the red shiner fish, *Cyprinella lutrensis*." (\$3498)
1998. K'NEX Corporation donation for work on social behavior of fishes (\$240 of K'NEX pieces).
1997. Internal Research Grant, Eastern New Mexico University, Portales, NM. "Proposal for research equipment." (\$1156)
- 1996a. Internal Research Grant, Eastern New Mexico University, Portales, NM. "Sex ratio of the red shiner, *Cyprinella lutrensis*." (\$3270)
- 1996b. Teaching Technology Grant, Eastern New Mexico University, Portales, NM. "Proposal for Systat 7.0" (\$1000)
1995. Internal Research Grant, Eastern New Mexico University, Portales, NM. "Variability of sexual dimorphism in a sex-changing fish." (\$2,665)
1994. Internal Research Grant, Eastern New Mexico University, Portales, NM. "Female-female reproductive competition in the red shiner fish, *Cyprinella lutrensis*." (\$3,537)
1993. Internal Research Grant (1992 - 1993), Llano Estacado Center for Advanced Professional Studies and Research, Eastern New Mexico University, Portales, NM. "Aquarium laboratory for studies in aquatic biology." (\$4,469)
1989. Sigma Xi Society grant-in-aid of research for "Temporal patterns of reproduction in the pomacanthid angelfish, *Centropyge potteri*." (\$500)
1986. Sigma Xi Society grant-in-aid of research for "Investigation of protogynous hermaphroditism in the pomacanthid fish *Centropyge potteri*." (\$200)

PUBLICATIONS - Refereed Research or Conference Papers (listed reverse chronologically)

- Lutnesky, M.M.F.**, K.R. Cradock, and Reynolds J. B. 2019. Immobilization threshold and fish conductivity of two small fishes. *North American Journal of Fisheries Management* 39:788-792. ISSN: 0275-5947 print / 1548-8675 online, DOI: 10.1002/nafm.10319.
- Patman, J. Michael, S.C.J., **Lutnesky, M.M.F.**, Palaniappan, K. 2018. Biosense: real-time object tracking for animal movement and behavior research. IEEE Applied Imagery Pattern Recognition Workshop (AIPR). Washington, D.C. (peer-reviewed conference paper, DOI: 10.1109/AIPR.2018.8707411).
- Lutnesky, M. M. F.**, and Brown, T. R. 2015. Simulation of movement that potentially maximizes assessment, presence, and defense in territorial animals with varying movement strategies. *Ecological Modelling* 313:50-58.
- Stewart, C. T., and **Lutnesky, M. M. F.** 2015. Experimental studies of electroshock effects on fish require in-water measurements and fish threshold observations to achieve electrofishing context: response to comment. *North American Journal of Fisheries Management* 35:207-209.
- Stewart, C. T., and **Lutnesky, M. M. F.** 2014. Retardation of reproduction in the Red Shiner due to electroshock. *North American Journal of Fisheries Management* 34:463-470.

- Brown, T. R., Jowers, J., and **Lutnesky, M.M.F.** 2011. Simulation of spatial movement that potentially maximizes assessment, presence, and defense in territorial and home-ranging animals, with special reference to territorial sex-changing fishes. *Evolutionary Ecology Research* 13(6):571-588.
- Jones S.E., Burgos J.M., **Lutnesky M.M.F.**, Sena J.A., Kumar S., Jones L.M., Varela M.F. 2011. Dairy farm age and resistance to antimicrobial agents in *Escherichia coli* isolated from dairy topsoil. *Current Microbiology* 62(4):1139-46.
- Varela, M. F., **Lutnesky, M.M.F.**, and Osgood, M. 2005. Assessment of student skills for critiquing published primary scientific literature using a primary trait analysis scale. *Microbiology Education* 6:20-27.
- Lutnesky, M.M.F.** and Adkins, J. W. 2003. Putative chemical inhibition of development by conspecifics in mosquitofish, *Gambusia affinis*. *Environmental Biology of Fishes* 66:181-186.
- Seely, C. J. and **Lutnesky, M. M. F.** 1998. Odour-induced antipredator behaviour of the water flea, *Ceriodaphnia reticulata*, in varying predator and prey densities. *Freshwater Biology* 40:17-24.
- Lutnesky, M. M. F.** 1996. Size-dependent rate of protogynous sex change in the pomacanthid angelfish, *Centropyge potteri*. *Copeia* 1996:209-212.
- Lutnesky, M. M. F.** and Kosaki, R. K. 1995. Female-female competition in a coral-reef fish and a test of the temporal-threshold model of polygynous mating. *American Naturalist* 146:832-847.
- Lutnesky, M. M. F.** 1994. Density-dependent protogynous sex change in territorial-haremic fishes: models and evidence. *Behavioral Ecology* 5:375-383.
- Lutnesky, M. M. F.** 1992b. A temporal-threshold model of polygynous mating in cyclical environments. *American Naturalist* 139:1102-1115.
- Lutnesky, M. M. F.** 1992a. Behavioral ecology of reproduction in the pomacanthid angelfish, *Centropyge potteri*. Doctoral dissertation, University of Hawaii.
- Lutnesky, M. M. F.** and Szyper, J. P. 1991. The influence of spatial food distribution on agonistic behavior in juvenile mahimahi, *Coryphaena hippurus*. *Journal of Applied Ichthyology* 7:253-256.
- Szyper, J. P. and **Lutnesky, M. M. F.** 1991. Ventilation rate and behavioral responses of juvenile mahimahi to temperature and salinity. *Progressive Fish-Culturist* 53:166-172.
- Lutnesky, M. M. F.** and Szyper, J. P. 1990. Respiratory and behavioral responses of juvenile dolphin fish to dissolved oxygen concentration. *Progressive Fish-Culturist* 52:178-185.

Ross, R. M., Hourigan, T. F., **Lutnesky, M. M. F.**, and Singh, I. 1990. Multiple simultaneous sex changes in social-groups of a coral-reef fish. *Copeia* 1990:427-433.

Lutnesky, M. M. F. 1989. Attraction to larval pheromones in female convict cichlids (*Cichlasoma nigrofasciatum*). *Journal of Comparative Psychology* 103:297-305.

Lutnesky, M. M. F. 1984. Attraction to larval pheromone in maternal substrate spawning cichlids. Master's thesis, San Diego State University.

In Preparation

Michael, S.C. Patman, J., **Lutnesky, M.M.F.** Water clarity affects collective behavior in fishes. *In preparation.*

Lutnesky, M.M.F., Pasko, B.B., Brown, T.R. How some fishes think may influence their rates of sex change. *In preparation.*

Johnson, M. A., Cradock, K. R., and **M. M. F. Lutnesky.** Questing behavior of the ticks *Rhipicephalus sanguineus* and *Amblyomma americanum*. *In preparation.*

AD HOC REVIEWER FOR:

Aquatic Conservation (International journal); *American Naturalist* (International journal); *Behavioral Ecology* (International journal); *Copeia* (International Journal; journal of the American Society of Ichthyologists & Herpetologists); *Environmental Biology of Fishes* (International journal); *Japanese Journal of Ichthyology* (International journal); *Journal of Comparative Psychology* (American Psychological Association); National Science Foundation (USA Government); National Institutes of Health (USA Government); *North American Journal of Fisheries Management* (American Fisheries Society); *Pacific Science* (International journal); Proceedings of the National Academy of Sciences; State of New Mexico Department of Game & Fish (NM government)

WORKSHOPS

2018. NSF Life STEM Grant Writing Workshop, Morgan State University, Baltimore, MD

2017. Workshop on Training for Texas A&M University System Department Chairs, Texas A&M University – College Station (Dr. James Hallmark, Vice Chancellor, Host).

2016. 2016 Texas Water Roadmap Forum: A Facilitated Interdisciplinary and Multi-Stakeholder “Charrette” Organized by the Texas Water Development Board, and the National Science Foundation (NSF) Research Coordination Network (RCN) on Climate, Energy, Environment and Engagement in Semiarid Regions. Texas A&M University – San Antonio, San Antonio, TX.

2012a. Workshop on enhancing student engagement in large classes. HIS STEM Grant, U.S. Dept. of Education, ENMU, Portales, NM.

2012b. Workshop on MediaSite and Wimba in the Classroom. PPOHA Grant, ITS, and Distance Education Outreach (DEO), ENMU, Portales, NM.

2007. Workshop on chairing the academic department, ENMU, Portales, NM.

2003a. Academic Assessment Workshop, New Mexico Association of Higher Education.

- Ruidoso, New Mexico.
- 2003b. Learning Disabilities Workshop, Disability Services / Testing, Eastern ACE Project, Eastern New Mexico University, Portales, NM.
- 2003c. Workshop on Scientific Presentations. Eastern New Mexico University, Portales, NM (An NIH BRIN sponsored activity run by Dr. Jeff Radel from the University of Kansas Medical Center).
2001. Chairing the Academic Department, a workshop for Division and Department Chairs and Deans. American Council on Education. Washington, D.C., USA.

PUBLIC PRESENTATIONS

- Thimons, S.X., K.R. Cradock, and M.M.F. Lutnesky 2019. Preliminary Characterization of Fish Survivorship in Backwater Pools on the Pecos River, NM USA. Joint meeting of Ichthyologists and Herpetologists (American Society of Ichthyologists and Herpetologists), Snowbird, UT.
- Lutnesky, M.M.F., K.R. Cradock, and J.B. Reynolds 2018. Estimation of Electroshock Immobilization Threshold and Effective Conductivity of Two Small Fishes. Joint meeting of Ichthyologists and Herpetologists (American Society of Ichthyologists and Herpetologists), Rochester, NY.
- Johnson, M., K.R. Cradock, and M. Lutnesky. 2017. Questing platform selection by the ixodid ticks *Rhipicephalus sanguineus* and *Amblyomma americanum*. Entomological Society of America, Entomology 2017, Denver, CO.
- Lutnesky, M.M.F., B.B. Pasko, and T.R. Brown 2017. How may population density influence rates of sex change in fishes? Joint meeting of Ichthyologists and Herpetologists (American Society of Ichthyologists and Herpetologists), Austin, TX.
- Lutnesky, M.M.F. 2017. "Finding Balance, Avoiding Burn-Out, and Managing Your Time." Invited Panelist, Texas A&M System Webinar Series (Dr. James Hallmark, Vice Chancellor, Host).
- Lutnesky, M.M.F. 2016. The ideal interdisciplinary department. Invited presentation. Texas A&M University – San Antonio, San Antonio, TX.
- Lutnesky, M.M.F. 2015a. Commencement Address: "Student Success, What's It Really All about?" 129th Commencement for Eastern New Mexico University, Greyhound Arena, 12 December, 2015.
- Lutnesky, M.M.F. 2015b. Behavioral Ecology at Eastern New Mexico University. Faculty Lectureship Series, Eastern New Mexico University, Portales, NM.
- Michael, S., and Lutnesky, M.M.F. 2014. Effects of turbidity on group cohesion in freshwater fishes in New Mexico. Annual WRII Conference, Las Cruces, NM.
- Stewart, C. and Lutnesky, M.M.F. 2011. Effects of electrofishing on reproduction in the red shiner, *Cyprinella lutrensis*. 44th joint annual meeting of the AZ & NM chapters of AFS and TWS.
- Brown, T., Jowers, J., and Lutnesky, M.M.F. (alphabetical listing) 2004. Simulation of swimming and territory characteristics that maximize encounters and territoriality in sex changing fishes. Annual national meeting of the American Society of Ichthyologists and Herpetologists, Norman, Oklahoma.
- Spitzack, T., and Lutnesky, M.M.F. 2004. Preliminary results on the effects of gender, predation risk, and potential sexual selection on depth choice in the mosquitofish, *Gambusia affinis*. Desert Fishes Council, Phoenix, AZ.

- Lutnesky, M. M. F. 2003. Female-female competition: an infrequently studied component of sexual selection. Keynote Speaker, 29th Annual Student Research Conference, Eastern New Mexico University, Portales, NM, USA.
- Lutnesky, M. M. F. 2002a. Female-female competition as a potential regulator of reproductive periodicity: A) Shanghai Fisheries University, Shanghai, China; B) Ningbo University, Ningbo, China; C) Zhangjiang Ocean University, Zhangjiang, China.
- Lutnesky, M. M. F. 2002b. Darwin and evolutionary biology today. Colloquium on Charles Darwin and evolution, Eastern New Mexico University, Portales, NM, USA.
- Lutnesky, M.M. F. 2001. Selected conservation issues for the Lake Superior watershed: fisheries, persistent organic pollutants, and exotic species. Invited Seminar, Great Lakes Aquarium, Duluth, MN, USA
- Lutnesky, M.M.F. and Adkins, J. W. 2000. Pheromone influence on growth and maturation in the western mosquitofish, *Gambusia affinis*. Annual national meeting of the American Society of Ichthyologists and Herpetologists, La Paz, Mexico.
- Lutnesky, M.M.F. and Panabecker, D.A. 1998. A preliminary test of temperature-dependent and social-dependent sex determination in the red shiner (*Cyprinella lutrensis*). International Ecological and Evolutionary Ethology of Fishes meeting, University of Washington, Seattle, WA.
- Lutnesky, M.M.F. 1997. Sexual plasticity in fishes. Department of Biology Seminar, ENMU, Portales, NM.
- Lutnesky, M.M.F. 1996. Environmental sex determination in the red shiner, *Cyprinella lutrensis*? International Ecological and Evolutionary Ethology of Fishes meeting, University of New Mexico, Albuquerque, NM.
- Lutnesky, M.M.F. 1995. The influence of population density on the social control of protogynous sex change in coral-reef fishes. (Invited) XXIV International Ethology Conference, Honolulu, HI.
- Lutnesky, M.M.F. 1994a. Sex change in fishes. Invited speaker, West Texas A&M University, Canyon, TX.
- Lutnesky, M.M.F. 1994b. Size-dependent rate of protogynous sex change in the pomacanthid angelfish, *Centropyge potteri*. Annual national meeting of the American Society of Ichthyologists and Herpetologists, Los Angeles, CA.
- Lutnesky, M.M.F. 1994c. Density-dependent protogynous sex change in territorial-haremic fishes: models and evidence. Department of Biology Seminar, ENMU, Portales, NM.
- Lutnesky, M.M.F. 1993a. Reproductive choices by females in spatial and temporal dimensions. Invited seminar speaker, West Texas A & M University, Canyon, TX.
- Lutnesky, M.M.F. and Kosaki, R. K. 1993b. Female-female competition in the polygynous mating system of the pomacanthid angelfish, *Centropyge potteri*. Annual national meeting of the American Society of Ichthyologists and Herpetologists, Austin, TX.
- Lutnesky, M. M. F. 1992a. Behavioral ecology of reproduction in the pomacanthid angelfish, *Centropyge potteri*. Dissertation defense, University of Hawaii, Honolulu, HI.
- Lutnesky, M. and Kosaki, R. 1992b. Test of a temporal-threshold model of polygynous mating in two time scales. *Pacific Science* 46:98.
- Lutnesky, M. M. F. 1991a. A test of a temporal-threshold model of polygynous mating in two time scales. Tester Symposium, University of Hawaii, Honolulu, HI.
- Lutnesky, M. 1991b. A temporal-polygyny-threshold model and spawning in the pomacanthid angelfish, *Centropyge potteri*. *Pacific Science* 45:97-98.

- Lutnesky, M. M. F. 1990. A temporal polygyny-threshold model and spawning in the pomacanthid angelfish, *Centropyge potteri*. Ecological and Evolutionary Ethology of Fishes meeting, Flagstaff, AZ.
- Lutnesky, M. M. F. 1989a. The influence of space on the social control of sex change in protogynous fishes. Annual national meeting of the American Society of Ichthyologists and Herpetologists, San Francisco, CA.
- Lutnesky, M. M. F. and Szyper, J. P. 1989b. Responses of juvenile mahimahi, *Coryphaena hippurus*, to low levels of dissolved oxygen. Annual Meeting of the World Aquaculture Society, Los Angeles, CA.
- Szyper, J. P. and Lutnesky, M. M. F. 1989c. Respiration rate as an indicator of sublethal stress in fingerling mahimahi, *Coryphaena hippurus*. Annual Meeting of the World Aquaculture Society, Los Angeles, CA.
- Lutnesky, M. 1989d. Looking for feedback: a temporal polygyny-threshold model. Evoluncheon, University of Hawaii.
- Lutnesky, M. 1989e. Stimulation, inhibition, and the induction of "early" sex change in the pomacanthid angelfish, *Centropyge potteri*. Pacific Science 43:136-137.
- Lutnesky, M. 1988a. Stimulation, inhibition, and the induction of "early" sex change in the pomacanthid angelfish, *Centropyge potteri*. Tester Symposium, University of Hawaii, Honolulu, HI.
- Lutnesky, M. 1988b. Sexual dimorphism, dichromatism, and protogynous hermaphroditism in the pomacanthid angelfish, *Centropyge potteri*. Pacific Science 42:126.
- Lutnesky, M. 1987. Sexual dimorphism, dichromatism, and protogynous hermaphroditism in the pomacanthid angelfish, *Centropyge potteri*. Tester Symposium, University of Hawaii, Honolulu, HI.
- Lutnesky, M. 1986. Environmental influences on sex change and mating system variation the pomacanthid fish, *Centropyge potteri*. Evo-luncheon, University of Hawaii.
- Lutnesky, M. 1984. Attraction to larval pheromones in maternal substrate spawning cichlids. Master's Thesis defense. San Diego State University, San Diego, CA.

MAJOR ADVISOR, M.S. THESES

15. Michael, Sabrina. 2016. Environmental influences on shoaling behavior in Red Shiners (*Cyprinella lutrensis*) and Sand Shiners (*Notropis stramineus*). Eastern New Mexico University.
14. Flanary-Olayvar, Keora. 2015. Spawning depth preferences and female-female competition in the polygynous Red Shiner *Cyprinella lutrensis*. Eastern New Mexico University.
13. Brooks, Cassandra. 2014. Body and web characteristics of a spider (*Dictyna calcarata*) as influenced by an urban environment. Eastern New Mexico University.
12. Stewart, Christine T. 2012. Effects of electrofishing on reproduction in the red shiner, *Cyprinella lutrensis*. Eastern New Mexico University.
11. Martin, Robert. 2008. The effects of copper ethanalamine on mortality, growth, and behavior of larval plains leopard frog, *Rana blairi*, and larval Woodhouse's toad, *Bufo woodhousii*. Eastern New Mexico University.
10. Harings, Nicole M. 2008. Behavioral and morphological ontogeny of the tadpole shrimp, *Triops longicaudatus* (Leconte)(Notostraca: Triopsidae). Eastern New Mexico University.
9. Roselli, Irene, M. 2008. The Influence of predator detection on life history strategies in *Ceriodaphnia reticulata* (Cladocera: Daphniidae). Eastern New Mexico University.

8. Spitzack, T. S. 2004. The effects of sex, predation risk and sexual selection on depth choice in the mosquitofish, *Gambusia affinis*. Eastern New Mexico University.
7. Radke, M. F. 2001. Kin recognition and cannibalism in the red shiner (*Cyprinella lutrensis*). Eastern New Mexico University.
6. Fields, S. P. 2001. Ability of western diamondback rattlesnake (*Crotalus atrox*) and prairie rattlesnake (*Crotalus viridis viridis*) to discern the presence of a potential predator based on chemical cues. Eastern New Mexico University.
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ADMINISTRATIVE ACCOMPLISHMENTS*

* Departmental accomplishments (team efforts) during my tenure as Department Chair

Chair, Department of Science and Mathematics, Texas A&M University (TAMUSA) 2016 – present:

2019 – **Establishment of B.S. and M.S. degrees in Water Resources Science and Technology (WATR).**

2018 – **Establishment of minors in Biochemistry, Chemistry, and Mathematical Biology.**

2017 – **Establishment of Health Professions Advisory Committee (HPAC)** to evaluate and guide students in preparation for graduate and professional schools in the Health Sciences.

2016a – **Establishment of Internal Policies/ Procedures**, Department of Science and Mathematics. Policies are kept in binders by program area (Biology, Mathematics, Physical Sciences [CHEM, GEOG, GEOL, and PHYS], and Psychology) in the department office. All policies (from 2016 on) cite the department or program meeting minutes that established agreed upon policy governing the department or program (e.g. communication, committees, assessment, curriculum changes, etc.).

2016b – **Establishment of Faculty Evaluation Committee (FEC)**, and FEC evaluation procedures, for the evaluation of peers in the Department of Science and Mathematics.

Chair, Department of Biology, Eastern New Mexico University (ENMU) 1998 to 2013:

1998 – **Establishment of Internal Policies/ Procedures**, Department of Biology. Policies are kept in a binder in the department office. All policies (from 1998 on) cite the department meeting minutes that established agreed upon policy governing the department (e.g. communication, acceptance & support of graduate students, examinations, etc.).

1999 – **Establishment of Emphasis Programs within Biology Major:** General Biology, Botany, Cell & Molecular Biology, Microbiology, Pre-medical, & Zoology (Beginning 1999 – 2000, ENMU Undergraduate Catalog).

- 2000 - **Establishment of Department Assessment Committee, with Department-level Assessment Coordinator**
- 2001 – **Establishment of a Minor in Wildlife & Fisheries Sciences** (Beginning 2001 – 2003, ENMU Undergraduate Catalog).
- 2002 – **Establishment of a Non-thesis Emphasis in Education within MS Degree in Biology** (Beginning 2002 – 2004, ENMU Graduate Catalog).
- 2003 - **Establishment of a Science Education Tenure-Track Faculty Position in Biology** (Beginning 2003 – 2004 academic year).
- 2004 – **Establishment of “Community Liaison” for the Department of Biology** (Beginning 2004 – 2005 academic year). Liaison increases community awareness of the department’s activities/value.
- 2005 – **Established Wildlife & Fisheries Sciences major as a “stand alone” major without a minor.** (Beginning 2005 – 2006 academic year).
- 2006 - **Established recurring line in the budget for resource position to teach anatomy and physiology.**
- 2010 – **Established dual enrollment A&P courses** (BIOL 107 & 108).
- 2011- **Major revision of curriculum in Biology** (removing old emphases [see 1999, above], and establishing Biology major [no emphasis], and Ecology, Evolution, & Organismal Biology [EEOB], Microbiology, Molecular Biology, & Biotechnology [MMBB], and Premedicine emphases) and WFS majors.
- 2012 – **Established Non-thesis M.S. in Biology** (beginning with 2012 – 2014 catalog).

Other

- 2013 Third degree Black Belt in Taekwon Do.
- 2012 Competed as an individual competitor to represent Team USA at the USA ITF World Championships TKD Qualifier, Houston, TX (did not make team).
- 2010a Second degree Black Belt in Taekwon Do.
- 2010b Competed as an individual competitor (patterns, sparring, breaking) to represent Team USA at the USA ITF World Championships TKD Qualifier, Philadelphia, PA. Qualified in patterns.
- 2010c Competed in **ITF World Championships of Taekwon Do** for Team USA (35+ years), Cheongju, South Korea.
- 2007 First degree Black Belt in Taekwon Do.

References available upon request

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