

JEANETTE A. THOMAS, Professor
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1. Education:

Hubbs-Sea World Research Institute, Post-doctoral research, 1980-1985
University of Minnesota, Post-doctoral research, 1979-1980
University of Minnesota, Ph.D. in Evolutionary Biology & Behavioral Ecology. 1979
University of Minnesota, M.S. in Evolutionary Biology & Behavioral Ecology. 1977
Western Illinois University, B.S. in Zoology and B.S. in Botany, 1973
High School diploma, Northwestern High School, Sciota, Illinois. 1970

2. Areas of Specialization:

Mammalogist with special interest in sensory behavior, using bioacoustics as a population assessment tool, the effects of human-made noise on animals, and behavioral enrichment of captive animals

3. Professional Experience:

Director, Laboratory of Sensory Biology, Western Illinois University-Quad Cities
Editor, *Aquatic Mammal*, 2000-present
WIU Distinguished Faculty Lecturer, 2005
Coordinator WIU Graduate Certificate in Zoo and Aquarium Studies, 2001-present
Chair, WIU-QC Faculty Council, 1999-2002
WIU Distinguished Alumni, 1999
WIU Outstanding Researcher, 1994
Professor, tenured by exception, 1993-present
Professor, Western Illinois University, 1992-present
Associate Professor, Western Illinois University, 1989-1992
Senior Scientist, DP III (GS 13 equivalent), Naval Ocean Systems Center, Biological Research Branch, Kailua, Hawaii, 1985-1989
Adjunct Professor, San Diego State University, San Diego, California, 1980-1985
Director of Bioacoustics Laboratory, Hubbs/Sea World Research Institute, San Diego, California, 1980-85
Post-Doctoral Researcher, University of Minnesota, 1979-1980
Graduate Research Assistant, University of Minnesota, National Science Foundation Polar Programs, 1977-1980
Field Party Leader in Antarctic, National Science Foundation Polar Programs, 1976-1979.
Chief Scientist of Coastguard icebreaker, *Glacier*, 1977
Graduate Teaching Assistant, University of Minnesota, 1975-1976
Graduate Museum Curator Assistantship, Mammal Department, Bell Museum of Natural History, University of Minnesota, 1973-1976
Wildlife Information Specialist, Bell Museum of Natural History, 1974
Natural History Tour Guide, Bell Museum of Natural History, 1973-1975

4. Professional Publications:

2010. Loeding, E., Thomas, J. A., Santymire, R., and D. Bernier (accepted). Using Fecal Hormonal and Behavioral Analysis to Evaluate the Introduction of two Sable Antelope at Lincoln Park Zoo. *Journal of Applied Animal Welfare Science*.
- Fuhs, V.S., Wells, R. S., and J. A. Thomas (in preparation). Spatial relationships of mother-calf pairs within Hawaiian spinner dolphins (*Stenella longirostris*). *Aquatic Mammals*.
- Gitter, S. J.S. Panigada, S. Airoidi, J. A. Thomas (in preparation) Whistle repertoire and geographic variation of striped dolphins (*Stenella coeruleoalba*) in the Pelagos Sanctuary (Mediterranean Sea). *Aquatic Mammals*.

- LaRock, H. and J. A. Thomas. (in preparation). Patterns of echolocation in a group of semi-captive Atlantic bottlenose dolphins (*Tursiops truncatus*) in Rotan, Honduras. *Aquatic Mammals*.
- Therrien, S.E., Peer, B.D., Therrien, R.E. and J.A. Thomas. (submitted). The Effects of Urban Noise on the Vocal. *Condor*.
- Therrien, S. E. and J. A. Thomas. (submitted). Diel Patterns in Underwater Sounds by Bottlenose Dolphins at Brookfield Zoo. *Aquatic Mammals*.
- Walter, E. M. and J. A. Thomas. Visual discrimination in an Asian elephant. (in revision) *Animal Cognition*.
2009. Dudzinski, K., Thomas, J. A., and J. Gregg. Communication in Marine Mammals. *in Encyclopedia of Marine Mammals*. Perrin, W., Würsig, B. and Thiesseilwait, Ed. Academic Press. 2nd Edition. Pp. 260-269.
- McCreery, L. and J. A. Thomas. Acoustic Analysis of Underwater Vocalizations of Crabeater Seals (*Lobodon carcinophagus*): not so monotonous. *Aquatic Mammals* 35.4:
- Southall, B.L., Bowles, A.E., Ellison, W.T. Finneran, J.J., Gentry, R.L., Greene, C.R.Jr., Kastak, D., Ketten, D.R., Miller J.H., Nachtigall, P.E., Richardson, W.J., Thomas, J.A., and P. L. Tyack. (2008) Marine mammal noise exposure criteria: initial scientific recommendations. Harland, Simon Richards and Stephen Robinson (eds.). *Underwater Noise Measurement, Impact and Mitigation, Proceedings of the Institute of Acoustics Conference, Southampton, UK 14-15 October, 2008*. Published by the Institute for Acoustics: St Albans, UK. Pp. 13-16.
- Thomas, J.A. and T. Rogers. Species Account of the Weddell seal (*Leptonychotes weddellii*). *in Encyclopedia of Marine Mammals*. Academic Press. 2nd Edition. Pp. 1217-1220.
- Thomas, J.A. and J. Terhune. Species Account of the Ross Seal (*Ommatophoca rossii*). *in Encyclopedia of Marine Mammals*. 2nd Edition. Academic Press. Pp. 988-990.
2008. Hasselberg, B. and J. A. Thomas 2008. Using an Infrared Temperature Sensor to Remotely Study Microhabitat Selection in Captive California Sea Lions (*Zalophus californianus*). *Aquatic Mammals*. 34(2): 212-228.
- Richlen, M. and J. A. Thomas. Acoustic Behavior of Antarctic Killer Whales (*Orcinus orca*) Recorded near the Ice Edge of McMurdo Sound, Antarctica. *Aquatic Mammals*. 34(4): 448-457.
2007. Au, W. W. L., Thomas, J. A. and K. T. Ramirez. 2007. Characteristics of the Auditory Brainstem Evoked Potential of Pacific White-sided dolphin (*Lagenorhynchus obliquidens*). *Aquatic Mammals*. 33 (1): 76-84.
- Southall, B. L., A. E. Bowles, W.T. Ellison, J. J. Finneran, R. L. Gentry, C.R. Greene Jr., D. Kastak, D. R. Ketten, J. H. Miller, P. E. Nachtigall, W. J. Richardson, J. A. Thomas, & P. L. Tyack. *Marine Mammal Noise Exposure Criteria: Initial Scientific Recommendations* *Aquatic Mammals*. 33(4): 411-521.
2005. Mattson, M. C. and J. A. Thomas 2005. Effects of boat traffic on bottlenose dolphins near Hilton Head, South Carolina. *Aquatic Mammals*. 31(1): 133-140.
2004. Awbrey, F.T., J.A. Thomas, and W.E. Evans. 2004. Ultrasonic sound production in a captive leopard seal (*Hydrurga leptonyx*). *in Echolocation in Bats and Dolphins*. J.A. Thomas, C. Moss, and V. Vater, eds. Pp. 535-541 The University of Chicago Press.
- Evans, W.E., J.A. Thomas, and R. Davis. 2004. Sounds used during underwater navigation by a Weddell seal, (*Leptonychotes weddellii*). *in Echolocation in Bats and Dolphins*. J.A. Thomas, C. Moss, and V. Vater, eds. Pp. 541-547. The University of Chicago Press.
- Fahner, M.A., J.A. Thomas, K. Ramirez, and J. Boehm. 2004. Acoustic properties of a Pacific white-sided dolphin, (*Lagenorhynchus obliquidens*), echolocation signals. *in Echolocation in Bats and Dolphins*. Pp. 53-59. The University of Chicago Press. J.A. Thomas, C. Moss, and V. Vater, eds.
- Thomas, J.A. and M. Jalili. 2004. Review of echolocation in insectivores and rodents. *in Echolocation in Bats and Dolphins*. J.A. Thomas, C. Moss, and V. Vater, eds. Pp. 547-564. The University of Chicago Press.
- Thomas, J. A., C. F. Moss, and M. Vater. 2004. (eds.) *Echolocation in Bats and Dolphins*. The University of Chicago Press. pp. 598.
2003. Fenton, B. M. and J. A. Thomas. 2003. Sensory Ecology. *in Grzimek's Animal Life Encyclopedia*. Chapter on Mammals volume 6.

- Stirling, I. and J. A. Thomas. 2003. Relationships between underwater vocalizations and mating systems in phocid seals. *Aquatic Mammals*. 29 (2):227-246.
2000. Dudzinski, K., J.A. Thomas, and E. Douaze. 2000. Communication. *in* Encyclopedia of Marine Mammals. Academic Press. Pp. 248-268.
- Thomas, J.A. 2000. Species Account of the Weddell seal (*Leptonychotes weddellii*). *in* Encyclopedia of Marine Mammals. Academic Press. Pp. 1300-1302.
- Thomas, J.A. 2000. Species Account of the Ross Seal (*Ommatophoca rossii*). *in* Encyclopedia of Marine Mammals. Academic Press. Pp. 1053-1055.
1999. Mossbridge, J.A. and J.A. Thomas. 1999. An acoustic niche for Antarctic killer whales (*Orcinus orca*) and leopard seals (*Hydrurga leptonyx*). *Marine Mammal Science*. 15: 1351-1356.
- Peterson, L. M. and J. A. Thomas. 1999. Performance of Trailmaster infrared sensors in monitoring activity of captive coyotes. *Wildlife Society Bulletin*. 26(3): 592-596.
1998. Tremel, D.P., J.A. Thomas, K.T. Ramirez, G.S. Dye, W.A. Bachman, A.N. Orban, and K.K. Grimm. 1998. Underwater hearing sensitivity of a Pacific white-sided dolphin, *Lagenorhynchus obliquidens*. *Aquatic Mammals*. 24(2): 63-69.
1996. Etter, D. R., C. M. Nixon, J. B. Sullivan, and J.A. Thomas. 1995. Emigration and Survival of Orphaned Female Deer in Illinois. *Can. J. Zool*. 73: 440-445.
- Kastelein, R.A., J.A. Thomas, and P.E. Nachtigall, eds. 1995. *Sensory Abilities of Aquatic Mammals*. De Spil Publishers, Amsterdam, Holland. 600 pp.
- Thomas, J.A. 1996. The Sounds of Seal Societies. *in* Critical Strategies for Academic Thinking and Writing. 3rd edition. M. Kiniry and M. Rose, eds. Reprinted.
- Thomas, J. A. and C.L. Golladay. 1995. Analysis of Underwater vocalizations of Leopard Seals (*Hydrurga leptonyx*). *in* Sensory Systems of Aquatic Mammals. R.A. Kastelein, J.A. Thomas, and P.E. Nachtigall, eds. De Spil Publishers, Amsterdam.
1994. Nixon, C. M., L. P. Hansen, P. A. Brewer, J. E. Chelsvig, J.B. Sullivan, R. Koerkenveier, D. R. Etter, J. Cline, and J.A. Thomas. 1994. Behavior, dispersal, and survival of male white-tailed deer in Illinois. Illinois Natural History Survey. Biological Notes 139, May 1994. 30 pp.
- Thomas, J.A. 1994. Review of book, The Sonar of Dolphin. W.W.L. Au. *Marine Mammal Science*. 10(2): 240-241.
- Thomas, J.A. and D.K. Odell. 1994. Strategies for Developing a Career in Marine Mammal Science. The Society for Marine Mammalogy, Special Publication. (<http://www.marinemammalogy.org/strat.htm>)
- Thomas, J.A., R.A. Kastelein, and A. Ya Supin, eds. 1994. *Marine Mammal Sensory Systems*. Plenum Press, N.Y. 733 pp.
1993. Thomas, J.A. 1993. The Sounds of Seal Society. Reprinted *in* Critical Strategies for Academic Reading and Writing. Bedford Books. St. Martin's Press, Inc. Pp. 131-135.
- Thomas, J.A., R.A. Kastelein, and A. Ya Supin, eds. 1993. *in* Marine Mammal Sensory Systems. Thomas, Kastelein, Supin eds. Plenum Publ. 773 pp.
- Turl, C.W. and J.A. Thomas. 1993. Possible Relationship between Oceanographic Conditions and Long-range Target Detection by a False Killer Whale. *in* Marine Mammal Sensory Systems. Thomas, Kastelein, Supin, eds. Pp. 421-432.
1991. Thomas, J.A. 1991. Testing...Testing. *Natural History*. March, No. 3, Pp. 55-56.
- Thomas, J.A. 1991. The Sounds of Seal Society. *Natural History*. March, No. 3, Pp. 46-54.
1990. Thomas, J.A. and R.A. Kastelein, (eds.). 1990. Sensory Abilities of Cetaceans: Laboratory and Field Evidence. NATO ASI Life Sciences Series. Plenum Press, N.Y. pp. 708.
- Thomas, J.A. and C.W. Turl. 1990. Echolocation characteristics and range detection by a false killer whale (*Pseudorca crassidens*). *in* Sensory Abilities of Cetaceans: Laboratory and Field Evidence. J.A. Thomas and R.A. Kastelein (eds.). Pp. 321-334. NATO ASI Life Sciences Series Plenum Press, N.Y.
- Thomas, J.A., R.A. Kastelein, and F.T. Awbrey. 1990. Behavior and blood catecholamines of beluga whales during playbacks of noise from an oil-drilling platform. *Zoo Biology*. 9(5): 393-402.
- Thomas, J.A., J. Pawloski, and W.W.L. Au. 1990. Masked hearing abilities in a false killer whale *Pseudorca crassidens*. *in* Sensory Abilities of Cetaceans: Laboratory and Field Evidence. J.A. Thomas and R.A. Kastelein (eds.). Pp. 395-404. NATO ASI Life Sciences Series. Plenum Press, N.Y. 708 pp.

- Thomas, J.A., P.W.B. Moore, P.E. Nachtigall, and W.G. Gilmartin. 1990. A new sound from a stranded pygmy sperm whale. *Aquatic Mammals*. 16(1): 28-80.
- Thomas, J.A., P.W.B. Moore, R. Withrow, and M. Stoermer. 1990. Underwater audiogram of a Hawaiian monk seal (*Monachus schauinslandi*). *J. Acoustical Society of America*. 87(1): 417-420.
1989. Thomas, J.A., Ferm, L.M., and K.E. Zinnel. 1989. Underwater vocalization patterns of Weddell seals (*Leptonychotes weddellii*) during the breeding season at McMurdo Sound, Antarctica. *Antarctic Journal of the United States*. 23(5): 146-148.
1988. Awbrey, F.T., J.A. Thomas, and R.A. Kastelein. 1988. Low-frequency underwater hearing in belugas, *Delphinapterus leucas*. *J. Acoustical Society of America*. 84(6): 2273-2275.
- Davis, R.W., T.M. Williams, J.A. Thomas, R.A. Kastelein, and L.H. Cornell. 1988. The effects of oil contamination and cleaning on sea otters (*Enhydra lutris*). II. Metabolism, thermoregulation and behavior. *Canadian Journal of Zoology*. 66(12): 2782-2790.
- Thomas, J.A., N. Chun, W. Au, and K. Pugh. 1988. Underwater audiogram of a false killer whale (*Pseudorca crassidens*). *J. Acoustical Society of America*. 84(3): 936-940.
- Thomas, J.A., R. Puddicombe, M. George, and D. Lewis. 1988. Variations in underwater vocalization of Weddell seals (*Leptonychotes weddellii*) at the Vestfold Hills as a measure of breeding population discreteness. *Hydrobiologia*. 165: 279-284.
- Thomas, J.A., M. Stoermer, C. Bowers, L. Anderson, and A. Garver. 1988. Detection abilities and characteristics of echolocating false killer whales (*Pseudorca crassidens*). *in: Animal Sonar: Processes and Performance*. P.E. Nachtigall and P.W.B. Moore (eds.). Plenum Press, N.Y. 862 pp.
- Williams, T.M., R.A. Kastelein, R.W. Davis, J.A. Thomas. 1988. The effects of oil contamination and cleaning on sea otters (*Enhydra lutris*). I. Thermoregulatory implications based on pelt studies. *Canadian Journal of Zoology*. 66(12): 2776-2781.
1987. Awbrey, F.T. and J.A. Thomas. 1987. Measurements of sound propagation from several acoustic harassment devices. *in Acoustical Deterrents in Marine Mammal Conflicts with Fisheries*. B. Mate and J. Harvey (eds.). Oregon Sea Grant Publication ORESU-W-86-001, Pp. 85-104.
- Thomas, J.A., L.M. Ferm, and V. Kuechle. 1987. Silence as an anti-predation strategy by Weddell seals. *Antarctic Journal of the United States*. 22(5): 232-234.
- Thomas, J.A., S.R. Fisher, L.M. Ferm, and R.S. Holt. 1987. Acoustic detection of cetaceans using a towed array of hydrophones. *Rep. Int. Whal. Commn. Special Issue 8, No. SC/37/03*, Pp. 139-148.
- Thomas, J.A., L.H. Cornell, B.E. Joseph, L.H. Williams, and T.D. and S. Dreischman. 1987. An implanted transponder chip used as a tag for sea otters (*Enhydra lutris*). *Marine Mammal Science*. 3(3): 271-274.
1986. Bohne, B.A., D.G. Bozzay, and J.A. Thomas. 1986. Evaluation of inner ear pathology in Weddell seals. *Antarctic Journal of the United States*. 21(5): 208.
- Schusterman, R.J., J.A. Thomas, and F.G. Wood (eds.). 1986. *Dolphin Cognition and Behavior: A comparative approach*. Lawrence Erlbaum Associates, Publisher. 393 pp.
- Thomas, J.A., F.T. Awbrey, and S.R. Fisher. 1986. Use of acoustic techniques for studying whale behavior. *Rep. Int. Whal. Commn. Special Issue 8, No. SC/A82/Bw10*, Pp. 121-138.
1985. Bohne, B.A., J.A. Thomas, E. Yohe, and S. Stone. 1985. Examination of potential hearing damage in Weddell seals (*Leptonychotes weddellii*) in McMurdo Sound, Antarctica. *Antarctica Journal of the United States*. 19(5): 174-176.
- Todd, F.S., and J.A. Thomas. 1984. Observations of Weddell seals (*Leptonychotes weddellii*) at Nelson Island, Antarctica. *Antarctic Journal of the United States*. 19(5):153-154.
- Thomas, J.A., R. Puddicombe, M. George, and D. Lewis. 1984. Investigations on geographic variation of Weddell seal vocalizations around the Antarctic. *Antarctic Journal of the United States of America*. 19(5):154-155.
1983. Fisher, S.R., L.M. Ferm, and J.A. Thomas. 1983. Circumpolar acoustic surveys for marine mammals using a towed hydrophone array. *Antarctic Journal of the United States of America*. 17: 171-173.

- Thomas, J.A. and R.A. Kastelein. 1983. Behavioral and physiological responses of captive beluga whales to playbacks of drilling noise. *J. Acoustical Society of America*. 74(S1), S54 (A).
- Thomas, J.A. and D.P. DeMaster. 1983. Parameters affecting survival in Weddell seal pups (*Leptonychotes weddellii*). *Canadian J. Zoology*. 61(9): 2078-2083.
- Thomas, J.A. and D.P. DeMaster. 1983. Diel haulout patterns of Weddell seals (*Leptonychotes weddellii*) females and their pups. *Canadian J. of Zoology*. 61(9): 2085-2086.
- Thomas, J.A. and I. Stirling. 1983. Geographic variation in Weddell seal (*Leptonychotes weddellii*) vocalization between Palmer Peninsula and McMurdo Sound, Antarctica. *Canadian J. Zoology*. 61: 2203-2210.
- Thomas, J.A., F.T. Awbrey, and S.R. Fisher. 1983. Incidental evidence for echolocation in polar pinnipeds. *J. Acoustical Society of America*. 74(S1), S75 (A).
- Thomas, J.A., K. Zinnel, and L. Ferm. 1983. Investigation of Weddell seal (*Leptonychotes weddellii*) underwater calls using playback techniques. *Canadian J. Zoology*. 61:1448-1456.
1982. Awbrey, F.T., J.A. Thomas, W.E. Evans, and J.S. Leatherwood. 1982. Ross Sea killer vocalizations: Preliminary description and comparison with those of some northern hemisphere killer whales. *Rep. Int. Whal. Commn.* 32: 667-670.
- Leatherwood, J.S., F.T. Awbrey, and J.A. Thomas. 1982. Minke whale response to a transiting survey vessel. *Rep. Int. Whal. Commn.* 32: 795-802.
- Leatherwood, J.S., F.S. Todd, J.A. Thomas, and F.T. Awbrey. 1982. Incidental records of cetaceans in southern seas January and February 1981. *Rep. Int. Whal. Commn.* 32: 515-520.
- Thomas, J.A. and D.P. DeMaster. 1982. An acoustic technique for determining haulout pattern in leopard (*Hydrurga leptonyx*) and crabeater (*Lobodon carcinophagus*) seals. *Canadian J. Zoology*. 60(8): 2028-2031.
- Thomas, J.A. and V. Kuechle. 1982. Quantitative analysis of the underwater repertoire of the Weddell seal (*Leptonychotes weddellii*). *J. Acoustical Society of America*. 72: 1730-1738.
- Thomas, J.A. and V.B. Kuechle. 1982. Melt pools as experimental acoustic arenas. *Antarctic J. of the United States of America*. 16: 186-187.
- Thomas, J.A., S.R. Fisher, W.E. Evans, and F.T. Awbrey. 1982. Leopard seals (*Hydrurga leptonyx*) produce ultrasonic sounds. *Antarctic Journal of the United States of America*. 16: 185.
- Thomas, J.A., V. Pastukhov, R. Elsner, and E. Petrov. 1982. Mammalian species account, Baikal seal (*Phoca sibirica*). *Amer. Soc. of Mammalogists No.* 188:6.
1981. Leatherwood, J.S., J.A. Thomas, and F.T. Awbrey. 1981. Minke whales off northwestern Ross Island. *Antarctic Journal of the United States of America*. 16(1): 154-156.
- Thomas, J.A., V. Kuechle, J. Ross, and T.C. Eagle. 1980. Satellite tracking and automatic position/activity monitoring techniques for the Antarctic cod and the Weddell seal. *Antarctic Journal of the United States*. 15: 153-154.
- Thomas, J.A., J.S. Leatherwood, W.E. Evans, and J. Jehl, Jr. 1981. Ross Sea killer whale (*Orcinus orca*) distribution, behavior, color pattern, and vocalizations. *Antarctic Journal of the United States*. 16(5): 157:158.
1979. DeMaster, D.P., J.A. Thomas, S. Stone, and D. Andriashek. 1979. Biological studies of seals in pack ice habitat. *Antarctic Journal of the United States of America*. 14(5): 179-180.
- Thomas, J.A. and E.C. Birney. 1979. Parental care and mating systems of the prairie vole, *Microtus ochrogaster*. *Behavioral Ecology and Sociobiology*. 5: 171-186.
- Thomas, J.A. and D.P. DeMaster. 1979. Umbilical drop-off as a measure of age in the Weddell seal, *Leptonychotes weddellii*. *Journal of Mammalogy*. 60(2): 436.
- Thomas, J.A., D.P. DeMaster, S. Stone, and D. Andriashek. 1979. Observations of a newborn Ross seal pup (*Ommatophoca rossii*) near the Antarctic Peninsula. *Canadian Journal of Zoology*. 58(11): 2156-2158.
1978. Thomas, J.A., V. Kuechle, D.P. DeMaster, E. Birney, and J. Eldridge. 1978. Colonial behavior of the Weddell seals in eastern McMurdo Sound. *Antarctic Journal of the United States*. 13(4): 159-160.
1977. DeMaster, D., V. Kuechle, J. Thomas, and O. Rongstad. 1977. Colonial behavior of Antarctic marine mammals in eastern McMurdo Sound. *Antarctic Journal of the United States*. 12(4): 8-9.

5. General Publications and Reports

2009. Thomas, J. A. and K. Dudzinski. 2009. Mid-term report on Historical Perspectives, Marine Mammal Commission.
2003. Thomas, J. A., and W. W. L. Au. 2003. Evoked potential measurement of the masked hearing threshold of the Pacific white-sided dolphin (*Lagenorhynchus obliquidens*). Final Report to University Research Council at Western Illinois University.
2000. Thomas, J.A. and J. Potter. 2000. Comparison of vocal behavior of captive bobcats and mountain lions at Wildlife Prairie Park. Final Report to Western Illinois University Research Council.
1999. Thomas, J.A. 1999. Conference on Biological Sonars in Portugal. Final Report to Office of Naval Research.
1996. Thomas, J.A. 1996. Low-frequency hearing in a Pacific White-sided Dolphin. Final Report to Office of Naval Research.
1995. Mortimer, K. and J.A. Thomas. 1995. Research Took WIU Professor into a World All its Own. WIU Press Release.
- Nixon, C.M., J.B. Sullivan, R. Koerkenmeier, J.H. Stevens, J.A. Thomas, T. Rothering, L.L. Hungerford, M. Mitchell, G.F. Hubert, and R. Bluett. 1995. Illinois Raccoon Investigations. Final Report. PR No. W-104-R-6, 1 July 1993 to 30 June 1995.
- Shinberger, D. 1995. Western Illinois University Grad, Professor, and Internationally Known Mammalogist Explains her Start in the Field of Marine Biology. Jan. Western Illinois University Western Courier. press release.
- Thomas, J.A. 1995. Studies on Echolocation Abilities of Pacific White-sided Dolphins. *in* Critical Issues in Replicating Biosonar. Conference Record. Dynamic Systems, Panama City, FL.
- Thomas, J.A. 1995. A whale of a good time. P. 3 *in* Western News, Spring.
- Thomas, J.A. and D.K. Odell. 1995. Strategies for Pursuing a Career in Marine Mammal Science. Reprinted by Ocean Society, Sea Grant, Sea World, and on several homepages in World Wide Web.
- Warda, K. 1995. Biology professor shows interest and experience in Mammalogy. Western Courier. February 20, 1995.
1994. Manton, V.J. 1994. Review of Book: Marine Mammal Sensory Systems by J.A. Thomas, R.A. Kastelein, and S. Ya Supin. *Aquatic Mammals*. 20(2): 57-58.
- Thomas, J.A. 1994. Evaluation of Infrared Sensors for Monitoring Coyote Activities. Final Report to Western Illinois University Research Council. 3 pp.
1993. Thomas, J.A. 1993. Acoustic Mapping of Pools at Shedd Aquarium. Final Report to Western Illinois University Research Council. 3 pp.
1992. Thomas, J.A. and J. Payne. 1992. Tissue Thickness as a Measure of Condition in White-tailed Deer. Final Report, PR Project No. W-105-R-2.
1991. Thomas, J.A. and J. Payne. 1991. Tissue Thickness as a Measure of condition in White-tailed Deer. Annual Performance Report, PR Project No. W-105-R-2, 66 pp.
1990. Thomas, J.A. 1990. Development of an Implanted Transponder Chip as an Assessment Tool for Illinois Mammals. Final Report to Western Illinois University Research Council. 2 pp.
1989. Thomas, J.A. 1989. A Review of Final Report by EBASCO Environmental, 1989. Walrus Monitoring Program. National Marine Fisheries Service. 58 pp.
1986. Awbrey, F.T., J.A. Thomas, W.E. Evans, and R.A. Kastelein. 1986. Hearing threshold measurements and responses to Belukha whales to playbacks of underwater drilling noise. American Petroleum Institute, Publication 1, No. 4438, 34 pp.
- Thomas, J.A. 1986. Sea otter oil spill mitigation study. Report to Minerals Management Service, No. MMS-86-0009. 219 pp.
1980. Evans, W.E. and J.A. Thomas. 1980. Understanding sound in the sea. HSWRI Tech. Rep. No. 80-127.

6. Theses:

1979. Thomas, J.A. Quantitative analysis of the vocal repertoire of the Weddell seal (*Leptonychotes weddellii*) in McMurdo Sound, Antarctica. Ph.D., University of Minnesota, Minneapolis, Minnesota. 99 pp. Major Professor: Donald B. Siniff
1977. Thomas, J.A. Parental care and mating systems in the prairie vole (*Microtus ochrogaster*). M.S., University of Minnesota, Minneapolis, Minnesota. 100 pp. Major Professor: Elmer C. Birney

7. Papers Presented at Professional Meetings and Abstracts:

2009. Gitter, S. J.S. Panigada, S. Airoidi, J. A. Thomas. Whistle repertoire and geographic variation of striped dolphins (*Stenella coeruleoalba*) in the Pelagos Sanctuary (Mediterranean Sea). Abstracted accepted for Society for Marine Mammalogy, Poster presentation. Oct 2009 meeting.
- Kikuchi, N. and J. A. Thomas. Use of Olfactory and Visual Senses in Foraging by Captive Greater Spear-nosed Bats (*Phyllostomus hastatus*). Poster Biosonar Conference, Japan, September 2009.
- McCreery, L. and J. A. Thomas. Acoustic analysis of underwater vocalizations of crabeater seals: not so monotonous. Abstract accepted for Society for Marine Mammalogy, Poster presentation. Oct 2009 meeting.
- Munoz, G., A.A., Karamanlidis, and J.A. Thomas. Preliminary Research on the Aerial Vocalizations of Mediterranean Monk Seals (*Monachus monachus*) Native to the Aegean Sea, Greece. Abstract accepted for Workshop on Monk Seals. The Society for Marine Mammalogy Conference. Poster presentation. 2009 meeting.
- Riess, D., M. Castellote, S. Crowell, J. Thomas, I. Szczepaniak, L. Psihoyos, C. Hambleton, J. Bruck, D., Kaplan, M. Maust, and B. Whitaker. Further Evidence in Support of the Distress Whistle Hypothesis in Dolphins. Abstract accepted for Society for Marine Mammalogy, Poster presentation. Oct 2009 meeting.
- Thomas, J.A. and B. Hasselberg. 2009. Using an Infrared Temperature Sensor to Remotely Study Microhabitat Selection in Captive California Sea Lions (*Zalophus californianus*). European Association of Aquatic Mammals Conference, Malta, March, 2009.
2008. Thomas, J. Co-sponsorship of Aquatic Mammals with the International Marine Animal Trainer's Association and the Alliance of Marine Mammal Parks and Aquariums. Oral Presentation, IMATA, Indianapolis, IN.
2007. Crowell, S., Thomas, J., Walter, E. and C. Stalf. 2007. Error patterns by an Asian elephant in a visual match-to-sample task. Poster presentation. Comparative Animal Cognition Conference Melbourne, Florida.
- Hasselberg, B. and Thomas, J. 2007. Using an Infrared Temperature Sensor to Remotely Study Thermoregulation in California Sea Lions. Poster presentation. at Society for Marine Mammalogy Conference, Cape Town, South Africa.
- Southall et al. (including J. Thomas) 2007. Marine Mammal Noise Exposure: Data Review, Science-Based Criteria, and Research Needs. The Society for Marine Mammalogy Conference, Oral presentation. Cape Town, South Africa.
- Thomas, J., Stalf, C., Walter, E. and S. Crowell. 2007. Training an Asian elephant for Visual match-to-sample. Oral presentation. Comparative Animal. Cognition Conference Melbourne, Florida.
- Walter, E. Thomas, J., S. Crowell and C. Stalf. 2007. Visual discrimination of three-dimensional objects by an Asian Elephant using match-to-sample. Oral presentation Comparative Animal Cognition Conference Melbourne, Florida.
2005. Thomas, J. A. 2005. Anthropogenic noise in the World's oceans: a whale of a tale. WIU Distinguished Faculty Lecture, 31 March 2005
- Thomas, J. A. 2005. Benefits of Merging the Scientific Journal, *Aquatic Mammals*, with joint support from the European Association of Aquatic Mammals and the European Cetacean Society. EAAM meeting, March, Harderwijk, Holland.
- Thomas, J. A. Can you hear me now? 2005. How Funding Research on Captive Dolphins Applies to the Conservation of Wild Populations. The Society

- for Research Administrators and the National Council of University Research Administrators, May 2005.
2004. Thomas, J. A. 2004. Anthropogenic noise in the World's oceans: a whale of a tale. National Lecture Series at Aquariums Sponsored by National Marine Fisheries Service. October 2004. Shedd Aquarium, Chicago, Illinois.
- Thomas, J.A. 2004. Panel member at 40th Anniversary Celebration of Hubbs-Sea World Research Institute in San Diego, CA. Topic-the role of graduate education in an Aquarium.
- Thomas, J. A., J. Brickman, and E. T Sanchez. 2004. Diel patterns in underwater sounds production by belugas and Pacific white-sided dolphins at the Shedd Aquarium. European Association for Aquatic Mammals, March 2004. Valencia, Spain.
- Thomas, J. A., Rose, N., Amundin, M., and J. Brokema. 2004. Panel Discussion on the Ethics of Marine Mammals in Captivity. Thomas Moderator. European Cetacean Society, Kolmarden Sweden, March 2004.
2003. Au, W. W. L. and J. A. Thomas. 2003. Masked audiogram of a Pacific white-sided dolphin using auditory brainstem response techniques. Oral presentation. Acoustical Society of America Conference. Nashville, TN. May 2003.
- Thomas, J. A. 2003. A graduate certificate in zoo & aquaria studies. European Association for Aquatic Mammals. Oral Presentation. March 2003.
- Thomas, J. A. 2003. Status of *Aquatic Mammals*. European Association for Aquatic Mammals. Oral Presentation. March 2003.
- Thomas, J. A. and K. Buccarelli. 2003. Environmental enrichment of captive bears at the Lincoln Park Zoo. European Association for Aquatic Mammals. Oral Presentation. March 2003.
2001. Heinemeyer, H., and J. A. Thomas 2001. Patterns of echolocation in a group of semi-captive Atlantic bottlenose dolphins (*Tursiops truncatus*) in Roatan, Honduras. Poster Presentation. Society for Marine Mammalogy Conference, Vancouver, BC. December.
- Thomas, J. A. 2001. The Vocal Monotony of Monogamy. Invited symposium speaker. Society for Marine Mammalogy Conference, Vancouver, BC. December 2001.
- Whitten, J. A., and J. A. Thomas. 2001. Analysis of whistles from Pacific white-sided Dolphins at the John G. Shedd Aquarium. Poster presentation. The Society for Marine Mammalogy Conference, Vancouver, BC. December 2001.
2000. Thomas, J.A. 2000. Acoustic considerations in conserving the Florida manatee. Manatee Technical Advisory Council meeting, May 15, 2000.
- Thomas, J.A., K.T. Ramirez, and M. Jalili. 2000. Masked hearing in Pacific white-sided dolphin. Oral presentation. European Association of Aquatic Mammals.
- Thomas, J.A., K.T. Ramirez, and M. Jalili. 2000. Masked hearing in a Pacific white-sided dolphin. Oral presentation. Acoustical Society of America.
1999. Cope, M. and J.A. Thomas. 1999. Effects of vessel traffic on a local population of bottlenose dolphins near Hilton Head, South Carolina. Poster presentation. The Society for Marine Mammalogy Conference, Maui, Hawaii.
- Jalili, M. and J.A. Thomas. 1999. Masked audiogram of a Pacific white-sided dolphin. Poster presentation. The Society for Marine Mammalogy Conference, Maui, Hawaii.
1998. Fahner, M.A. and J.A. Thomas. 1998. Echolocation in Pacific white-sided dolphins. World Marine Mammal Conference. Poster presentation. January, Monaco.
- Mossbridge, J.A. and J.A. Thomas. 1998. Acoustic niche in Antarctic marine mammals. World Marine Mammal Conference. Poster presentation. January, Monaco.
- Nester, A. and J.A. Thomas. 1998. Analysis of whistles of false killer whales in different ambient environments. World Marine Mammal Conference. Poster presentation. January, Monaco.
- Thomas, J.A. 1998. Methods for teaching echolocation in the university classroom. Biosonar Conference, Carvoeiro, Portugal.
1997. Thomas, J.A. 1997. Using Bioacoustic Techniques to Study Marine Mammals. Fermi National Accelerator Laboratory Colloquium. Lecture.
- Thomas, J.A. 1997. Using Bioacoustic Techniques to Study marine Mammals, Veterinary School, University of Illinois. Lecture.

1996. Bachman, W.A. and J.A. Thomas. 1996. ROC Analysis of Hearing Data on Three Species of Marine Mammals. AMS Conference. ND, 18 June 1996. Oral presentation.
- Thomas, J.A. 1996. Echolocation in "other" mammals: rats, shrews & seals. Symposium Organizer & speaker: American Society of Mammalogist. Grand Fork, ND, June 18, 1996.
- Welling, J. and J.A. Thomas. 1996. Acoustic surveys of bats in West-Central Illinois, American Society of Mammalogy Conference. ND June 18, 1996. Poster presentation.
1995. Bachman, W.A. and J.A. Thomas. 1995. ROC Curve Analysis of Hearing Data on Pacific White-sided Dolphins, ASM Conference, Burlington, VT. Poster presentation.
- Bachman, W.A. and J.A. Thomas. 1995. ROC Curve Analysis of Hearing Data on Pacific White-sided Dolphins, SSM Conference, Orlando, FL. Poster presentation.
- Dye, G. and J.A. Thomas. 1995. Vocal Mimicry by Beluga Whales of Ambient Sounds. The Society for Marine Mammalogy Conference, Orlando, FL. Poster presentation.
- Orban, A. and J.A. Thomas. 1995. Adjunctive Behaviors of a Pacific White-sided Dolphin during an Audiogram. SMM Conference, Orlando, FL, Poster presentation.
- Peterson, L.M. and J.A. Thomas. 1995. Effectiveness of Using Infrared Sensors for Monitoring Coyote Movements. American Society of Mammalogist Conference, Burlington, VT. Poster presentation.
- Tremel, D., J.A. Thomas, G.S. Dye, W.A. Bachman, and A. Orban. 1995. Low frequency hearing in Pacific White-sided Dolphins, Society for Marine Mammalogy Conference, Orlando, FL.
- Thomas, J.A. 1995. Bioacoustic Research at the Shedd Aquarium. Office of Naval Research symposium on Critical Issues in Biosonar. December, 1995, San Diego, CA.
- Thomas, J.A. 1995. Low-frequency hearing in Pacific White-sided Dolphins. International Ethological Congress. Honolulu, Hawaii. Invited Speaker.
1994. Hollis, K.M. and J.A. Thomas. 1993. Comparison of Mark-Recapture Data on Small Mammals Marked with Toe Clips or Implanted Transponder Chips in West-Central Illinois. American Society of Mammalogist Meeting, June, Bellingham, Washington. Poster presentation.
- Hollis, K.M. and J.A. Thomas. 1993. Comparison of Mark-Recapture of Small Mammals marked with Implanted Transponder Chips. Midwest Fish & Wildlife Conference, St. Louis, Missouri. Poster presentation.
- Presley, S.J. and J.A. Thomas. 1994. Small Mammals of McDonough County, Illinois. Am. Soc. Mammalogist Conference, Washington, D.C. Poster presentation.
- Peterson, L.M. and J.A. Thomas. 1994. Monitoring Movements of Coyotes Using Infrared Sensors. American Society of Mammalogist Conference, Washington, D.C. Poster presentation.
- Peterson, L. and J.A. Thomas. 1993. Infrared Sensing of Coyote Movements. Midwest Fish & Wildlife Conference, St. Louis. Poster presentation.
- Rothering, T.A. and J.A. Thomas. 1993. Home Range of Adult Male Raccoons Before and After Removal of an Adjacent Male. Midwest Fish & Wildlife Conference, St. Louis. Poster presentation.
- Thomas, J.A. 1994. Acoustic Research on Pacific White-sided Dolphins at the Shedd Aquarium, Office of Naval Research Sponsored Conference on Critical Issues in Biosonar, San Diego.
- Thomas, J.A. and C.A. Golladay. 1994. Geographic variation in leopard seal vocalizations. American Society of Mammalogist Conference, Washington, D.C. Poster presentation.
- Thomas, J.A., K. Ramirez, D. Tremel, G. Dye and M. Hudson. 1993. Low frequency hearing in a Pacific White-sided Dolphin. The Society for Marine Mammalogy Conference, Galveston, TX. Poster presentation. Oral presentation.
1991. Thomas, J.A. 1991. Using an Ultrasonic Probe to Measure Tissue Thickness in White-tailed Deer in Illinois. Annual meeting of Illinois Department of Conservation. Oral presentation.
- Thomas, J.A. 1991. Status of Deer Check Program in Illinois. Annual meeting of Illinois Department of Conservation. Starved Rock State Park. Oral presentation.
- Thomas, J.A. 1991. The Effects of Noise on Marine Mammals, Symposium on Marine Mammal Conservation. March. Shedd Aquarium.

- Thomas, J.A. and C.W. Turl. 1991. Possible Relationship Between Oceanographic Conditions and Long-range Target Detection by False Killer Whales. Sensory Abilities of Aquatic Mammals, held October 1991, Moscow, USSR. Oral presentation.
1990. Thomas, J.A. and K. Hollis. 1990. Implanted Transponder Chip as an Identification Tag in Small Mammals. Poster presentation. Annual Meeting of the American Society of Mammalogists.
1989. Thomas, J.A. 1989. Masked hearing abilities in the false killer whale. Symposium on Sensory Abilities of Cetaceans, Fifth International Theriological Congress, Rome, Italy.
- Thomas, J.A. 1989. Sensory systems in false killer whales. Symposium on Cognition and Sensory Abilities, Eighth Annual Meeting of the Society for Marine Mammalogy, Asilomar, California.
1985. Thomas, J.A. 1985. Echolocation abilities in false killer whales. Symposium on Animal Sonar Systems, Hellsingor, Denmark. Oral presentation.
1984. Thomas, J.A. 1984. Further investigations on geographic variation of Weddell seal vocalizations around the Antarctic. Symposium on Biological Research in Vestfold Hills, Antarctica, Australian National Antarctic Research Program. Poster presentation.
- Thomas, J.A. 1984. Sea otter oil spill mitigation study. Lecture Minerals Management Service, Santa Barbara, California.
- Thomas, J.A. 1984. Studies on effects of noise on marine mammals. Acoustical Society of America. San Diego, California.
1983. Thomas, J.A. 1983. Using acoustic techniques to assess marine mammals. Lecture at National marine Fisheries Service, Southwest fisheries Center, La Jolla, California.
- Thomas, J.A. 1983. Using towed acoustic array for oceanic assessment. Lecture at Ames Laboratory, Scripps Institute of Oceanography, La Jolla, California.
- Thomas, J.A. 1983. Vocal behavior in Antarctic pinnipeds. Lecture at Physiological Research Laboratory, Scripps Institute of Oceanography, La Jolla California.
1982. Thomas, J.A. 1982. Studies on vocal behavior of Weddell seals in the Antarctic. Lecture, San Diego University, San Diego, California.

8. Membership in Professional Organizations:

Acoustical Society of America, Animal Bioacoustics Technical Committee
 American Society of Mammalogists
 Acoustical Society of America
 Sigma Delta Epsilon
 Phi Kappa Phi
 Association for Women in Science
 European Association of Aquatic Mammals
 The Society for Marine Mammalogy
 International Marine Animal Trainer's Association

9. Grants:

2010. Institute for Museum Services, U@ a Zoo: Connecting pre-professionals and professionals in zoos & aquariums using distance-learning technology. Resubmit, \$380,000 under review, pending
2009. European Commission, EUZ00S-XXI: engaging the public in conservation. \$845,000, Co-PI (J. Thomas portion \$70,000)
2009. Institute for Museum Services, U@ a Zoo: Connecting pre-professionals and professionals in zoos & aquariums using distance-learning technology. \$460,000 under review, pending
2008. Marine Mammal Commission for Historical Perspective Aquatic Mammals \$57,350 (co-PI with Kathleen Dudzinski)
2008. Joint Industry Program to publish special issue of Aquatic Mammals on Using Physiological Measurements of Hearing on Marine Mammals. \$25,000.
2007. National Marine Fisheries Service to publish special issue of *Aquatic Mammals* on Noise Exposure Criteria for Marine Mammals. \$24,800.
2002. WIU University Research Council. Masked audiogram of a Pacific white-sided dolphin using auditory brainstem response techniques \$5000.
2001. SPAWAR--For Julie Whitten to Analyze dolphin whistles at the Shedd aquarium—

- \$9000
- WIU University Research Council--Using auditory brainstem responses to measure hearing in a Pacific white-sided dolphin--\$3,000.
1999. Office of Naval Research--International Conference on biological sonars--\$7,542
Office of Naval Research and Development--Support for editing the book, "Advances in the Study of Echolocation in Bats and Dolphins--\$2,500
Office of Naval Research-Europe--Support of European scientists attending the biosonar (with Lee Miller)-- \$5000
Western Illinois University Foundation--Monitoring ultrasonic sounds in marine species-- \$3,000.
1997. Laboratory of Sensory Biology, Western Illinois University Regional Center--Startup funds to organize an international Conference on biological sonars--\$23,900
WIU University Research Council--Evaluating the effectiveness of deer whistles--\$2,920
1995. Shedd Aquarium/Office of Naval Research--Biosonar studies on a Pacific white-sided dolphin-- \$5,000
WIU University Research Council--Biosonar studies on a Pacific white-sided dolphin--\$2,995
1994. Office of Naval Research--Further investigations on low-frequency hearing in Pacific white-sided dolphins--\$45,819
University Research Council--Survey of bats in West Central Illinois using electronic sensors-- \$3,000
Office of Naval Research--ASSERT funding, Graduate student training in audiometric studies of dolphins--\$17,124
Shedd Aquarium Research Committee--Vocal mimicry in Beluga whales--\$5,000 (with Greg Dye)
1993. Dal Briar Corporation--Brown County deer research--\$5,000
Illinois Natural History Survey--Radio tracking deer--\$18,000
Illinois Department of Conservation--Tissue thickness as a measure of health in white-tailed deer--Segment 2--\$9,037
Illinois Natural History Survey--Graduate student support--\$15,300 (July 1 to December 30, 1991)
Office of Naval Research--Graduate student training in low frequency audiometric studies on dolphins--\$48,890
Office of Naval Research--Low frequency audiometric studies on Pacific white-sided dolphins-- Year 2--\$25,900
Office of Naval Research--Supplemental funding. Low-frequency audiometric studies on Pacific white-sided dolphins--\$11,242
Western Illinois University Research Council--Remote monitoring of coyote behavior using infrared sensors and cameras--\$3,000
1992. Dal Briar Corporation--Brown County deer research--\$5,000
Illinois Department of Conservation--Deer check station program--\$73,760
Illinois Natural History Survey--Graduate student support--\$9,000 (July 1, 1992 to June 3, 1993)
Office of Naval Research--Low-frequency hearing in Pacific white-sided dolphins, Year 1-- \$57,679
Western Illinois University Research Council--Sound level mapping of Shedd Aquarium-- \$6,113
Western Illinois University Research Office--Undergraduate funds for curating mammal museum collection--\$1,000
U.S. Fish and Wildlife/Illinois Department of Conservation--Tissue thickness as a measure of health in white-tailed deer--\$16,151
1991. Illinois Department of Conservation--Deer Kill Checkers Station Program--\$62,480
Illinois Department of Conservation--Deer Kill Checkers Station Program (supplement)--\$2,300
Illinois Department of Conservation--tissue thickness of deer as an indicator of health--\$16,151
Illinois Department of Conservation--Deer check station program--\$31,879
Illinois Natural History Survey--Graduate student support--\$7,500 (September 1, 1991 to June 30, 1992)
1990. Western Illinois University Research Council--Implantable transponder chip for population studies of Illinois mammals--\$2,76

1989. National Marine Fisheries Service--Assessment of acoustic reflectivity of fishing nets. (with Whitlow Au). --\$30,000
National Science Foundation--Sensory abilities of cetaceans--\$10,000 (with Herb Roitblat)
NATO in Belgium--Sensory abilities of cetaceans, an Advanced Research Workshop, Rome, Italy--\$39,000
Plenum Press--Book publication--\$300
Portuguese Division of NATO--Sensory Abilities of cetaceans--\$1,400
1985. Department of Interior, Minerals Management Service--Sea otter oil spill mitigation study, Part I--\$150,000; Part II--\$200,000
National Science Foundation, Polar Programs--Acoustic research on Weddell seals (*Leptonychotes weddellii*) related to manmade noise. Part I--\$30,000
Naval Ocean Systems Center--Experimental verification of the echolocation abilities of a false killer whale (*Pseudorca crassidens*)--\$30,000
Western Oil and Gas Association--Review of the petition to list the Guadalupe fur seal *Arctocephalus townsendi* as an endangered species--\$2,000
1983. National Science Foundation, Polar Programs--Correlation of ambient recordings made during the Antarctic circumnavigation with biological productivity--\$32,000
1982. American Petroleum Institute--Evaluation of acoustic and non-acoustic response of Arctic marine mammals to underwater noise from offshore drilling operations--\$35,000
National Science Foundation, Polar Programs--Use of towed acoustic array as an assessment tool for marine mammals in the Antarctic--\$30,000
1981. National Marine Fisheries Service--Acoustic and color pattern discrimination of pilot whales near the Channel Islands--\$10,000
National Marine Fisheries Service--Acoustic measurements on seal control devices--\$2,000
U.S. Tuna Foundation--Acoustic detection of tuna and porpoise using a towed acoustic array--\$110,000
1980. Hubbs Sea World Research Institute--Vocal behavior of the Baikal seal, *Phoca sibirica*, at Lake Baikal, USSR--\$2,000
1974. Bell Museum of Natural History--Mating and parental behavior in *Microtus ochrogaster*--\$1,000
1973. Bell Museum of Natural History--Mating and parental behavior in *Microtus ochrogaster*--\$500

10. Committee Service:

Department of Biological Sciences, Western Illinois University

Chair, Curatorial Committee, 2004
Search Committee for Ornithologist, 2004
Chair Evaluation Committee, 2004
Personnel Committee 1993, 1997, 2004-2006
Kibbe Committee 1989-1994
Graduate Committee 1989-1993, 2007-present

College Level Committees, Western Illinois University

Criteria 4, NCIC Reaccreditation Committee, 2008-2009
Ad hoc Committee on Distance Learning, Faculty Senate, 2008-2009

University Level Committees, Western Illinois University

Faculty Senate representative for WIUQC, 2004 one semester
Chair of WIUQC Faculty Council, 2002-2003
Member of WIU Faculty Council, 2004-2009

Society and Organization Committees

Member, American Society of Mammalogists Marine Mammal Committee 2005-present
Member, Research Committee of Shedd Aquarium, 2005-present
Member, Research Committee of Niabi Zoo Conservation Science Center, 2007-present

11. Other Professional Information:

2009. Editor of *Aquatic Mammals*
Reviewer for Center of Independent Experts, Navy Acoustic Model for Establishing Quotas of Takes of Marine Mammals, Rhode Island
Reviewer for Center of Independent Experts, SAIC Acoustic Model for Establishing Quotas of

- Takes of Marine Mammals, Arlington, Virginia
2008. Scientific advisor to Joint Industry Program
Editor of *Aquatic Mammals*
2007. Scientific advisor to Joint Industry Program
Editor of *Aquatic Mammals*
Negotiated partnership between the European Association of Aquatic Mammals and the International Association of Marine Mammal Trainers. For support of publication of *Aquatic Mammals*.
2006. Scientific advisor to Joint Industry Program
Editor of *Aquatic Mammals*
Negotiated partnership between the European Association of Aquatic Mammals and the Alliance of Marine Mammal Parks & Aquariums. For support of publication of *Aquatic Mammals*.
Scientific advisor to Joint Industry Program
Reviewer for Center of Independent Experts, Review of the ACOUSTIC INTEGRATION MODEL (AIM) for Determining Noise Exposure Levels for Marine Mammals.
2005. WIU Distinguished Faculty Lecturer, topic: Noise pollution in the ocean: a whale of problem.
Editor of *Aquatic Mammals*, increased to 4 issues per year.
Negotiated partnership between the European Association of Aquatic Mammals and the European Cetacean Society for support of *Aquatic Mammals*.
Member of a Panel for developing acoustic criteria on noise exposure to marine mammals, sponsored by National Marine Fisheries Service.
Invited Symposium organizer for the Acoustical Society of America, entitled Temporal Patterns in Marine Mammal Sound Production, October 2005.
2004. Editor of *Aquatic Mammals*
Member of a Panel for developing acoustic criteria on noise exposure to marine mammals, sponsored by National Marine Fisheries Service.
Participant in Radio Program by BBC on Sounds of Life, Two half-hour episodes airing September 2004
Chair, The Society for Marine Mammalogy, Committee of Scientific Advisors
2003. Editor of *Aquatic Mammals*.
Facilitator and member of a Panel for developing acoustic criteria on noise exposure to marine mammals, sponsored by National Marine Fisheries Service.
2002. Chaired session at the Acoustical Society of America Meeting, Atlanta, Georgia
Editor of *Aquatic Mammals*.
Facilitator and member of a Panel for developing acoustic criteria on noise exposure to marine mammals, sponsored by National Marine Fisheries Service.
2001. Editor of *Aquatic Mammals*.
Facilitator and member of a Panel for developing acoustic criteria on noise exposure to marine mammals, sponsored by National Marine Fisheries Service.
Chaired session at the Acoustical Society of America Meeting, Chicago, IL
Invited task Member MTAC meeting, Tampa, Florida
2000. Editor of *Aquatic Mammals*, Scientific Journal of the European Association for Aquatic Mammals
Leader of workshop sponsored by the National Marine Fisheries Service to establish acoustic criteria for exposure of noise to marine mammals
Scientific Advisor, Marine Mammal Commission
Review Board, Acoustic Thermography of Ocean Climate Project
1999. Scientific Advisor, Marine Mammal Commission
Review Board, Acoustic Thermography of Ocean Climate Project
Western Illinois University Distinguished Alumni Award
Selected as senior editor and organizer for Conference on Biological Sonars to be held in Portugal
1998. National Science Foundation Workshop participant on developing a research cruise to assess Antarctic Pack Ice Seals, Seattle
Established laboratory of sensory biology, with facilities at Western Illinois University and Shedd Aquarium

- Scientific Advisor, Marine Mammal commission
 Review Board, Acoustic Thermography of Ocean Climate Project
 Western Illinois University Faculty Excellence Award
 Organizer of Symposium for American Society of Mammalogists Conference entitled
 Comparison of Bat and Dolphin Echolocation, June, Grand Forks, North Dakota
 Interviewed for BBC Natural History Radio special on Orchestra Under the Waves
 Scientific Advisor, Marine Mammal Commission
 Review Board, Acoustic Thermography of Ocean Climate Project
 1995. Western Illinois University College of Arts and Sciences Faculty Researcher of the Year
 Western Illinois University Faculty Excellence Award
 President, the Society for Marine Mammalogy; presided a biennial meeting in Orlando, FL,
 convened two bard meetings during the year
 Scientific Advisor, Marine Mammal Commission
 Member, American Society Mammalogist Committee on Marine Mammals
 Review Team Member for Research Objectives of Marine Mammal Program at the Shedd
 Aquarium
 Host for Dr. Alexander Supin, Russian Academy of Science, and 2-day visit to Shedd
 Aquarium
 Presentation at Western Illinois University Noon Brown Bag Lunch Sponsored by Women's
 Center entitled Research in the Antarctic, a Woman's Perspective
 Presenter at 15th Annual Western Illinois University Biology Day, April 1995
 Scientific advisor Acoustic Thermometry of Ocean Climate (ATOC) Project
 Member, Research Committee, Shedd Aquarium
 Nominated for Western Illinois University Annual Faculty Lecturer
 Board Member for Western Illinois University Women's Center
 Guest Speaker at Northern Illinois University Biology Department, Buda High School Biology
 class, and Geneseo first and third grade
 Reviewer for journal articles in Aquatic Mammals, Canadian Journal of Zoology, Marine
 Mammal Science, Australian Journal of Zoology, and Journal of Mammalogy
 Reviewer of articles in books: Marine Mammals, Volume I and The Biology of Harbour
 porpoise
 Scientific advisor Acoustic Thermometry of Ocean Climate (ATOC) Project
 Western Illinois University Faculty Excellence Award
 Scientific Advisor, Marine Mammal Commission
 President, The Society for Marine Mammalogy
 Member, American Society of Mammalogist, Committee on Marine Mammals
 1993. Appointment as Scientific Advisor, Marine Mammal Commission, Washington, D.C.
 President, The Society for Marine Mammalogy
 Phi Kappa Phi, Faculty Initiate
 Western Illinois University Faculty Excellence Award
 1992. Western Illinois University Faculty Excellence Award
 President-elect of The Society for Marine Mammalogy
 Western Illinois University Affirmative Action Council Member
 Illinois Endangered Species Board and Mammal Technical Committee Member
 Research Committee, Shedd Aquarium, Chicago, IL
 Quality Control Board, Minerals Management Service Project on Monitoring Abundance of
 Whales in the Gulf of Mexico
 American Society of Mammalogists, Committee on Marine Mammals Member
 1991. Nominated for President-elect of The Society for Marine Mammalogy.
 Nominated for Illinois Endangered Species Board and Mammal Technical Committee
 Chair, American Society of Mammalogists, Committee on Marine Mammals
 Chair, Membership of The Society for Marine Mammalogy
 Member, Research Committee of Shedd Aquarium
 Western Illinois University Affirmative Action Council Member
 Western Illinois University Faculty Senate Representative for Affirmative Action Council
 Western Illinois University Sigma Xi Club Research of the Year Award
 Western Illinois University Biology Education Conference Demonstrator
 Consultant, Science Museum of Minnesota, Antarctic Seal Display

- Consultant, North Carolina State Museum, Animal Sounds Display
Mentor for National Science Foundation Young Scholars Program
Elected, Outstanding Young Women of America for 1991
Lecturer, University of Illinois Veterinary School--Husbandry of Marine Mammals--what every veterinarian should know
Quality Control Board, Minerals Management Service Project on Monitoring Abundance of Whales in the Gulf of Mexico
1990. Consultant, Hearing Study on Manatee with Florida Atlantic University
Lecturer, N.E. Missouri State University--Vocal behavior of Antarctic seals
Chair, Marine Mammal Committee, American Society of Mammalogists
Chair, Membership Committee, The Society for Marine Mammalogy
Western Illinois University Biology Education Conference Demonstrator
1989. Chair, Marine Mammal Committee, American Society of Mammalogists
Chair, Membership Committee, The Society for Marine Mammalogy
Western Illinois University Biology Education Conference Demonstrator
Guest scientist on Wee Wonders television series, sponsored by National Science Teacher's Association and funded by the National Science Foundation
Co-convenor, symposium on Cetacean Sensory Abilities, 5th International Theriological Congress in Rome, Italy
1988. Consultant, New Zealand Public Television, videotape on seals in Antarctica
Team member, National Marine Fisheries Service, Hawaiian Monk Seal Recovery Team
Scientific writing award, Naval Ocean Systems Center
Consultant for Education Department, Sea Life Park, Hawaii
1987. Team member, National Marine Fisheries Service, Hawaiian Monk Seal Recovery Team
Team member, National Marine Fisheries Service, Hawaiian Monk Seal Recovery team
1986. Consultant, National Marine Fisheries Service, International North Pacific Fishing commission, meeting and review of research, Tokyo
Team member, National Marine Fisheries Service, Hawaiian Monk Seal Recovery Team
1985. Workshop participant, Acoustic harassment devices used on pinnipeds near fishing activities, Sea Grant program
Honoree in Esquire Register: Men and women under forty who are changing the nation
Program Reviewer, National Marine Fisheries Service, Marine Mammal Laboratory
Workshop Participant, Marine Mammal Commission, Review of methods to control movement of sea otters
1984. Program Manager, Minerals Management Service, Sea otter oil spill mitigation study
Workshop Participant, Marine Mammal Commission, Possible alternatives to the present practice of setting on porpoise to catch yellow fin tuna
U.S. Science Representative to Kahoka, USSR, under Joint US/USSR Agreement on Environmental Protection, Sea Otter Workshop
Consultant, University of Nevada, Natural History Museum, audio-visual presentation on sounds in the ocean
Congressional Honoree, State of California, California Women in Government's Tribute to Women for 1984
Who's Who in California, 1984?
Consultant on children's book, Seals of the World, by Phyllis Evans, Sea World Press
Consultant for Education Department, Sea World, Inc.
Consultant for Public Displays, Sea World, Inc.
1983. Reviewer, Marine Mammal Acoustics, Arctic Pilot Project, Petro-Canada
Reviewer, Hearing in Marine Mammals, Natural Resources Defense Council
1981. Chief Scientist, research vessel, Acoustic and behavioral investigations on Atlantic spotted porpoise in the Bahamas
Feature article "Baikal Seals Welcome U.S. Guests" in Soviet Life, February 1981
Feature chapter "Voice of the Seal" in New Explorers, Women in the Antarctic, by Barbara Land. Dodd & Mead, Publishers, 1981
Feature in CBS Universe television series on Antarctic research
1980. Reviewer, Marine Mammal Commission, Research on Hawaiian Monk Seals
Chief Scientist, Coast Guard Icebreaker, *Glacier*, Acoustic survey of geographic variations in populations of killer whales and minke whales in the Antarctic

- Chief Scientist, *MV Queen Mary*, Acoustical study using a towed array of hydrophones to monitor marine mammals in the eastern tropical Pacific
- U.S. Science Representative to Lake Baikal, Joint US/USSR Agreement on Environmental Protection
1979. U.S. Science Representative for National Science Foundation to USSR Antarctic base at Vostok, Geographic South Pole station
U.S. Congressional Antarctic Service Medal
Field assistant, Telemetry investigations on movements of sea otters in California
Field Assistant, Telemetry investigations on movements of seals
Field Party Leader, Population Assessment of Weddell seals in McMurdo Sound, Antarctica
1978. Field Assistant, Behavioral investigations of sea otters in Prince William Sound, Alaska
Field Assistant, Behavioral investigations of sea otters in California
Field Assistant, Population Assessment of Leopard and Crabeater seals in Palmer Peninsula, Antarctica
1977. Field Party Leader, Telemetry studies on Weddell seals and Antarctic cod in McMurdo Sound, Antarctica
1976. Field Assistant, Population Assessment of Weddell seals in McMurdo Sound, Antarctica
- 1970-73. Recipient, Illinois State Teacher's Scholarship

12. Graduate students who have or will completed master's theses under supervision of J.A. Thomas:

2010. Arras, H. Analysis of Object Volume as an Indicator of Discrimination Abilities by an Asian Elephant in Four Object Match-to-Sample Study at Niabi Zoo.
- Amsden, B. Weight Gain in Weddell Seal Pups at McMurdo Sound, Antarctica in 1977 and 1979.
- Bayley, B. Environmental Enrichment for a Male Pygmy Marmoset (*Cebuella pygmaea*) through chaingn Social Contexts at the Shedd Aquarium.
- Dye, G. A Model for Cooperative Marine Mammal Breeding Programs.
- Friel, B. Effects of construction noise on the behavior of Gabriella's crested gibbons at the Niabi Zoo.
- Kelley, M. Ultrasonic sound production in belugas and Pacific white-sided dolphins at the Shedd Aquarium.
- Kuchuki, N. Olfactory versus visual discrimination of food in Phyllostomid bats at the Peoria Zoo.
- Mindach, D. Silence as an anti-predation strategy by Weddell seals in response to leopard seals and killer whale sounds.
- Munoz, G. Aerial vocalizations of Mediterranean monk seals (*Monachus monachus*) native to western Mediterranean, Greece .
- Oliver, M. Insect Abundance and Biomass in a Residential area,, Cornfield, and at Volo Bog State Park in Northeastern Illinois.
- Paccione, W. Using Olfaction to Encourage Natural Behaviors of the American Black Bears (*Ursus americanus*) at Niabi Zoo.
- Rushing-Anderson, Katie. Effects of Water Enrichment on California Sea Lions) *Zalophus californianus*) Housed at the Peoria Zoo.
- Schahl, J. Regional heterothermy of Reticulated Giraffes (*Giraffa camelopardalis reticulata*) at the Niabi Zoo.
- Silpa, M. Proper Pocket Pet Care:An Owner's Guide.
- Stalf, C. Training Strategies for an Asian Elephant in a Match-to-Sample Study at Niabi Zoo.
- Wehmeyer, A. Olfactory Discrimination of Plant and Animal Scents by an Asian Elephant Using Match-to-Sample at Niabi Zoo.
2009. Coulomb, C. Diel patterns of underwater vocalizations of Weddell seals in the Antarctic during two Breeding Seasons. Master of Science. Western Illinois University. 67 pp.
- Gitter, S. Whistle Repertoire and Geographic Variation in the Whistles of Striped Dolphins (*Stenella coeruleoalba*) in the Ligurian Sea of the Mediterranean. Master of Science. Western Illinois University. 78 pp.
- Loeding, E. Investigating the Impacts of a Female to Female Introduction on Hormone Levels in Sable Antelope (*Hippotragus niger*). Master of Science. Western Illinois University. 54 pp.
- McCreery, L. Acoustical Analysis of Underwater Vocalizations from Crabeater seals,

- Lobodon carcinophagus*. Master of Science. Western Illinois University. 38 pp.
- Rose, A. The Effects of Varying Levels of Aquarium Noise on Behavioral and Physiological Stress Responses in two Species of Freshwater Fishes: Flathead Minnow (*Pimephales promelas*) and Bluegill Sunfish (*Lepomis macrochirus*). Master of Science. Western Illinois University. 45 pp.
2008. Crean, J. High school genetics curriculum using the Brookfield Zoo. Master of Science. Western Illinois University. 65 pp.
- Crowell, S. Diel patterns in underwater vocalizations of bottlenose dolphins at the Brookfield Zoo during consecutive removals of adult males from the breeding Population. Master of Science. Western Illinois University. 45 pp.
- Walter, E. Visual discrimination of an Asian elephant using match-to-sample. Master of Science. Western Illinois University. 78 pp.
2007. Clark, M. Underwater vocal behavior by harbor seals at the Brookfield Zoo. Master of Science. Western Illinois University. 67 pp.
- Fuhs, V. Spatial relationships of mother-calf pairs within Hawaiian spinner dolphins (*Stenella longirostris*). Master of Science. Western Illinois University. 48 pp.
- Hasselberg, B. Use of a laser thermometer for monitoring microhabitat selection in captive California sea lions (*Zalophus californianus*). Master of Science. Western Illinois University. 49 pp.
- Ostrego, L. Behavioral enrichment of harbor seals at the John G. Shedd Aquarium. Master of Science. Western Illinois University. 51 pp.
2006. Bergren, R. Spatial relationships of mother and pup Weddell seals over the breeding season. Master of Science. Western Illinois University. 66 pp.
- McGee, J. Standards of care for captive California Sea Lions (*Zalophus californianus*). Master of Science. Western Illinois University. 98 pp.
- Potter-Hensen, J. Analysis of behavior and vocalizations in captive mountain lions at Wildlife Prairie Park. Master of Science. Western Illinois University. 89 pp.
- Richlen, M. Antarctic killer whale vocalizations: Preliminary analysis of McMurdo Sound killer whale (*Orcinus orca*) repertoire. Master of Science. Western Illinois University. 55 pp.
- Stacey, R. Vocalizations of Antarctic Ross seals (*Ommatophoca rossii*). Master of Science. Western Illinois University. 47 pp.
2004. Mohan, H. Foraging behavior in white-tailed kites. Master of Science. Western Illinois University. 56 pp.
2003. Augustine, A. 2003. The Cat's Meow: relationships between domestic cats vocalization features and physical characteristics. Master of Science. Western Illinois University. 42 pp.
- Brickman, J. 2003. Factors influencing call usage of the Pacific white-sided dolphin, *Lagenorhynchus obliquidens*, at the John G. Shedd Aquarium. Master of Science. Western Illinois University. 37 pp.
- Tanchez, E. 2003. Diel patterns in underwater sounds of beluga whales (*Delphinapterus leucas*) at the John G. Shedd Aquarium. Master of Science. Western Illinois University. 46 pp.
2002. Baggett Miller, R. 2002. Variations in locomotor behavior of two primates species, *Hapalemur griseus* and *Galago moholi*. Master of Science. Western Illinois University. 46 pp.
- Heinemeyer, H., 2002. Patterns of echolocation in a group of semi-captive Atlantic bottlenose dolphins (*Tursiops truncatus*) in Roatan, Honduras. Master of Science. Western Illinois University. 36 pp.
2000. Cope, M. R. 2000. Effects of boat activity on bottlenose dolphins, *Tursiops truncatus*, in the near shore waters of South Beach, Hilton Head Island, South Carolina. Master of Science. Western Illinois University. 70 pp.
- Noe, B. 2000. Analysis of surface vocalizations from mother and pup Weddell seals (*Leptonychotes weddellii*). Master of Science. Western Illinois University. 31 pp.
1999. Fahner, M. A. 1999. Acoustic properties of echolocation signals by captive Pacific white-sided dolphins (*Lagenorhynchus obliquidens*). Master of Science. Master of Science. Western Illinois University. 19 pp.

- Gunther, M. L. 1999. Collection of mammal specimens in the Western Illinois University Museum of Natural History. Master of Science. Western Illinois University. 247 pp.
- Nester, A. E. 1999. The underwater sound repertoire of wild false killer whales (*Pseudorca crassidens*). Master of Science. Western Illinois University. 38 pp.
- Schneider, T. M. 1999. Survey of small mammals at Manikowski Prairie, Clinton County, Iowa. Master of Science. Western Illinois University. 64 pp.
1998. DeMarr, M. A. 1998. Microtopographical influences on thirteen-lined ground squirrel (*Spermophilus tridecemlineatus*) burrow placement in West Lake Park, Iowa. Master of Science. Western Illinois University. 28 pp.
1997. Welling, J. D. 1997. An acoustic survey of bats in Lake Argyle State Park. Master of Science. Western Illinois University. 22 pp.
1996. Bachman, W. A. 1996. Performance of three marine mammal species during underwater audiometric tests as examined by receiver operating characteristic (ROC) plots. Master of Science. Western Illinois University. 34 pp.
- Orban, A. Adjunctive behaviors by a Pacific white-sided dolphin during hearing tests. Master of Science. Western Illinois University. 56 pp.
- Tremel, D.P. 1996. Underwater hearing sensitivity of Pacific white-sided dolphin, *Lagenorhynchus obliquidens*. Master of Science. Western Illinois University. 37 pp.
1995. Peterson, L. M. 1995. Effectiveness of using a Trailmaster infrared sensor for monitoring activity of captive coyotes. Master of Science, Western Illinois University. 48 pp.
1994. Hollis, K. M. 1994. Comparison of implanted transponder chips and toe clips as marking techniques for small mammals. Master of Science. Western Illinois University. 26 pp.
- Presley, S. J. 1994. Small mammals of McDonough County, Illinois. Master of Science. Western Illinois University. 148 pp.
- Rothering, A. A. 1994. Home range of adult raccoons pre- and post- removal of a same-sex neighbor in West-Central Illinois. Master of Science. Western Illinois University. 49 pp.
1993. Chapman, E. S. 1993. Older sibling care in prairie voles, *Microtus ochrogaster*. Master of Science. Western Illinois University. 61 pp.
1985. Yochem, P. 1985. Haulout behavior in pinnipeds on Channel Islands, California. Master of Science, San Diego State University, San Diego, CA (publication format)
1984. Kastelein, R. 1984. Hearing thresholds measurements and responses to Belukha whales playbacks of underwater drilling noise. Doctorate of Philosophy, Agricultural University, Amsterdam, Holland (publication format)

Graduate students currently working on a master's thesis under the supervision of J.A. Thomas:

- Jurich, E. Hierarchical behavior in Barbary Sheep at the Niabi Zoo.
- Oljinak, J. Using child's toy "Pop tunes" to enrich captive colobus monkeys at the Niabi Zoo.
- Stansbury, Amanda. Behavioral Hearing Tests in Arctic fox.

13. Undergraduate Students completed honors theses under the supervision of J.A. Thomas:

1994. Golladay, C. 1994. Analysis of geographic variation in leopard seal underwater vocalizations using Principle Component Analysis. Bachelor of Science. 91 pp.
1993. Jones, B. 1993. A vocal analysis of Weddell seal mothers and pups (*Leptonychotes weddellii*). Bachelor of Science. 44 pp.
1991. Genovese, E. 1991. Sibling care activities of the prairie vole, *Microtus ochrogaster*. Bachelor of Science with Departmental Honors. 25 pp.
- Presley, S. 1991. Comparison of the use of transponder chips and toe clips in a mark-recapture study of the white-footed mouse (*Peromyscus leucopus*). Bachelor of Science with Departmental Honors. 50 pp.