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EDUCATION

Massachusetts Institute of Technology
Cambridge, MA
Sept. 1979 – May 1983

B.S. (2) in Mathematics and in Philosophy

Stanford University
Palo Alto, CA
Sept. 1986 – Dec. 1991

Ph.D. in Computer Science

Thesis: [*Event Formation and Separation in Musical Sound*](#)
Advisor: Prof. Bernard M. Mont-Reynaud.

Cornell University Bioacoustics Research Program
Ithaca, NY
Oct. 1992 – Dec. 1996
Lab director: Prof. Christopher W. Clark

Postdoctoral research associate

Monterey Bay Aquarium Research Institute
Moss Landing, CA
Jan. 1997 – Jan. 1999
Supervisor: Dr. Khosrow Lashkari

Postdoctoral research fellow

EMPLOYMENT

Oregon State University and NOAA Pacific Marine Environmental Laboratory (PMEL)
Professor, Senior Research
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Newport, OR
Apr. 2000 – present

National Marine Fisheries Service
Software Consultant
Corvallis, OR
May 1999 – Mar. 2000

Xerox Palo Alto Research Center
Graduate intern
Palo Alto, CA
Summer 1988

Interleaf, Inc.

Senior Software Engineer
Cambridge, MA
Mar. 1984 – Aug. 1986

PUBLICATIONS

Refereed Papers and Book Chapters

- Romagosa, M., S. Nieuwkerk, I. Cascão, T.A. Marques, R. Dziak, J.-Y. Royer, J. O'Brien, **D.K. Mellinger**, A. Pereira, A. Ugalde, E. Papale, G. Buscaino, M. Rasmussen, L. Matias, R. Prieto, and M.A. Silva. In prep. Revolutionary and evolutionary changes in fin whale song. To be submitted, *Current Biol.*
- Fregosi, S., D.V. Harris, H. Matsumoto, **D.K. Mellinger**, S.W. Martin, B. Matsuyama, J. Barlow, and H. Klinck. In prep. Detection probability and density estimation of fin whales by a Seaglider. Submitted to *J. Acoust. Soc. Am.*
- Harris, D., S. Fregosi, H. Klinck, **D.K. Mellinger**, L. Thomas. To appear. Assessing the effect of ocean glider movement on distance sampling assumptions. In press, *Remote Sens. Ecol. Conserv.*
- Haver, S.M., J.D. Adams, L.T. Hatch, S.M. Van Parijs, R.P. Dziak, J. Haxel, S.A. Heppell, M.F. McKenna, **D.K. Mellinger**, and J. Gedamke. 2021. Large vessel activity and low-frequency underwater sound benchmarks in United States waters. *Front. Mar. Sci.* 8:669528. [doi:10.3389/fmars.2021.669528](https://doi.org/10.3389/fmars.2021.669528).
- Yun, S., W.S. Lee, R.P. Dziak, L. Roche, H. Matsumoto, T.K. Lau, A. Sremba, **D.K. Mellinger**, J.H. Haxel, S.G. Kang, J.K. Hong, and Y. Park. 2021. Quantifying soundscapes in the Ross Sea, Antarctica using long-term autonomous hydroacoustic monitoring systems. *Front. Mar. Sci.* 8:703411, [doi:10.3389/fmars.2021.703411](https://doi.org/10.3389/fmars.2021.703411).
- Miksis-Olds, J.L., P.J. Dugan, S.B. Martin, H. Klinck, **D.K. Mellinger**, D.A. Mann, D.W. Ponirakis, O. Boebel. 2021. Ocean sound analysis software for making ambient noise trends accessible (MANTA). *Frontiers Mar. Sci.* 8:703650, [doi:10.3389/fmars.2021.703650](https://doi.org/10.3389/fmars.2021.703650).
- Martin, S.B., B.J. Gaudet, H. Klinck, P.J. Dugan, J.L. Miksis-Olds, **D.K. Mellinger**, D.A. Mann, O. Boebel, C.C. Wilson, D.W. Ponirakis, and H. Moors-Murphy. 2021. Hybrid millidecade spectra: A practical format for exchange of long-term ambient sound data. *JASA Express Lett.* 1:011203 (7 pp.), [doi:10.1121/10.0003324](https://doi.org/10.1121/10.0003324).
- Fregosi, S., D.V. Harris, H. Matsumoto, **D.K. Mellinger**, J. Barlow, S. Baumann-Pickering and H. Klinck. 2020. Detections of whale vocalizations by simultaneously deployed bottom-moored and deep-water mobile autonomous hydrophones. *Frontiers Mar. Sci.* 7:721, [doi:10.3389/fmars.2020.00721](https://doi.org/10.3389/fmars.2020.00721).
- Haver, S.M., Z. Rand, L.T. Hatch, D. Lipski, R.P. Dziak, J. Gedamke, J. Haxel, S.A. Heppell, J. Jahneke, M. F. McKenna, **D.K. Mellinger**, W.K. Oestreich, L. Roche, J. Ryan, and S.M. Van Parijs. 2020. Seasonal trends and primary contributors to the low frequency soundscape of the Cordell Bank National Marine Sanctuary. *J. Acoust. Soc. Am.* 148(2):845, 14 pp. [doi:10.1121/10.0001726](https://doi.org/10.1121/10.0001726).

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- Nieukirk, S.L., **D.K. Mellinger**, R.P. Dziak, H. Matsumoto, and H. Klinck. 2020. Multi-year occurrence of sei whale calls in North Atlantic polar waters. *J. Acoust. Soc. Am.* 147(4):1842-1850, [doi:10.1121/10.0000931](https://doi.org/10.1121/10.0000931).
- Fregosi, S., D.V. Harris, H. Matsumoto, **D.K. Mellinger**, C. Negretti, D.J. Moretti, S.W. Martin, B. Matsuyama, P.J. Dugan, H. Klinck. 2020. Comparison of fin whale 20 Hz call detections by deep-water mobile autonomous and stationary recorders. *J. Acoust. Soc. Am.* 147(2):961-977, [doi:10.1121/10.0000617](https://doi.org/10.1121/10.0000617).
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- Fournet, M.E.H., C.M. Gabriele, D.C. Culp, F. Sharpe, **D.K. Mellinger**, and H. Klinck. 2018. Some things never change: Multi-decadal stability of humpback whale calling repertoire on Southeast Alaskan foraging grounds. *Sci. Rep.* 8:13186 (13 pp), [doi:10.1038/s41598-018-31527-x](https://doi.org/10.1038/s41598-018-31527-x).
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- Mellinger, D.K.**, H. Qayum, J. Barlow, A. Thode, R. McHugh, and R. Dewar. 2005. Detection and localization with Ishmael and PAMGUARD. *Proc. 2nd Intl. Workshop on Detection and Localization of Marine Mammals Using Passive Acoustics*, 16-18 Nov. 2005, Monaco, p. 55.
- Mellinger, D.K.** 2005. Optimized detection of sperm whale clicks. *Proc. 2nd Intl. Workshop on Detection and Localization of Marine Mammals Using Passive Acoustics*, 16-18 Nov. 2005, Monaco, p. 37.
- Mellinger, D.K.** 2005. Automatic detection of regularly repeating vocalizations. Invited presentation, fall 2005 conference of the Acoustical Society of America. Abstract: *J. Acoust. Soc. Am.* 118(4): 1940(A).
- Mellinger, D.K.** 2005. Acoustic marine mammal assessment: tools for the next level. Invited presentation with abstract, Environmental Consequences of Underwater Sound (ECOUS) 2005 symposium.
- Mellinger, D.K.**, S. Heimlich, S.L. Niekirk. 2004. A comparison of optimized methods for the detection of blue whale sounds. Invited presentation, fall 2004 conference of the Acoustical Society of America. Abstract: *J. Acoust. Soc. Am.* 116(4): 2587(A).
- Heimlich, S.L., S.L. Niekirk, **D.K. Mellinger**, R.P. Dziak, H. Matsumoto, and M. Fowler. 2004. Bryde's whale (*Balaenoptera edeni*) sounds collected from autonomous hydrophones in the eastern tropical Pacific. *J. Acoust. Soc. Am.* 116: 2614(A).
- Mellinger, D.K.** A global observatory for studying marine noise. Conference proceedings, Shipping Noise and Marine Mammals: A Forum for Science, Management, and Technology, pp. 21-23.
- Mellinger, D.K.**, S.L. Niekirk, R.P. Dziak, J. Haxel, and C.G. Fox. 2003. Seismic airgun sounds recorded on moored hydrophones near the Mid-Atlantic Ridge and East Pacific Rise. *Eos, Trans. AGU* 84(46), Fall Meet. Suppl., Abstract OS42A-0830.

- Wright, A.J., J.C. Goold, S.A. Kuczaj, R. Thames, J.J. Newcomb, M. Snyder, and **D.K. Mellinger**. 2003. Tropical storm Barry and sperm whale click production in the northern Gulf of Mexico. Proc. 15th Biennial Conf. Biol. Marine Mamm., p. 181.
- Heimlich, S., **D.K. Mellinger**, S. Niekirk, H. Matsumoto, M. Fowler, and C. Fox. 2003. Sounds of Bryde's whales (*Balaenoptera edeni*) in the eastern tropical Pacific, 1999-2000. Proc. 15th Annual Conf. Biol. Marine Mamm., pp. 70-71.
- Gedamke, J., D.P. Costa, C.W. Clark, **D.K. Mellinger**, and F.L. O'Neill. 2003. Deciphering dwarf minke whale (*Balaenoptera acutorostrata*) song: Results from passive acoustic tracking and active playback experiments. Proc. 15th Biennial Conf. Biol. Marine Mamm., pp. 58-59.
- Niekirk, S.L., **D.K. Mellinger**, S. Heimlich, R.P. Dziak, J. Haxel, T.-K.A. Lau, and C.G. Fox. 2003. Seismic airgun sounds recorded on moored hydrophones in the mid-Atlantic and eastern tropical Pacific Oceans. Proc. 15th Biennial Conf. Biol. Marine Mamm., p. 118.
- Gedamke, J., D.P. Costa, C.W. Clark, **D.K. Mellinger**, and F. O'Neill. 2003. The role of song in the spacing of singing dwarf minke whales (*Balaenoptera acutorostrata*): Preliminary results from playback experiments. Proc. First Intl. Conf. Acoustic Communication by Animals, Aug. 27-30, 2003, pp. 95-96.
- Mellinger, D.K.** Ishmael: A tool for automatic recognition of animal sounds. 2003. Proc. First Intl. Conf. Acoustic Communication by Animals, Aug. 27-30, 2003, pp. 151-152.
- Gedamke, J., D. Costa, C.W. Clark, **D.K. Mellinger**, and F.L. O'Neill. 2003. The role of song in maintaining spacing between singing dwarf minke whales (*Balaenoptera acutorostrata*): Preliminary results from playback experiments. Invited presentation, Environmental Consequences of Underwater Sound (ECOUS) 2003 symposium. Abstract: pp. 41-42.
- Mellinger, D.K.**, and C.G. Fox. 2003. Software tools for bioacoustic analysis. Invited presentation, Environmental Consequences of Underwater Sound (ECOUS) 2003 symposium. Abstract: p. 55.
- Thode, A.M., **D.K. Mellinger**, S. Stienessen, A. Martinez, and K. Mullin. 2002. Passive three-dimensional tracking of sperm whales using two towed arrays during the 2001 SWAMP cruise. J. Acoust. Soc. Am. 112(5): 2399(A).
- Mellinger, D.K.**, J.P. Barlow, and A. Thode. 2001. Ishmael: New software for acoustic fieldwork and analysis. Proc. 14th Biennial Conf. Biol. Marine Mamm., pp. 142-143.
- Thode, A., **D.K. Mellinger**, S. Stienessen, A. Martinez, and K. Mullin. 2001. Depth-dependent behavioral and spectral features of diving sperm whales (*Physeter catodon*) in the Gulf of Mexico. Proc. 14th Biennial Conf. Biol. Marine Mamm., p. 212.
- Barlow, J., S. Rankin, J.N. Oswald, and **D.K. Mellinger**. 2001. Long-range detection of delphinid whistles using a towed hydrophone array. Proc. 14th Biennial Conf. Biol. Marine Mamm., p. 17.
- Alicea-Pou, J., J. Harvey, A. Mignucci-Gianoni, and **D.K. Mellinger**. 2001. Individual variation in the vocal behavior of the Antillean manatee (*Trichechus manatus*). Proc. 14th Biennial Conf. Biol. Marine Mamm., p. 4.
- Thode, A.M., **D.K. Mellinger**, S. Stienessen, A. Martinez, and K. Mullin. 2001. Analysis of frequency structure of sperm whale clicks as a function of dive depth and animal orientation. J. Acoust. Soc. Am. 109(5): 2390(A).

- Mellinger, D.K.**, A.M. Thode, A. Martinez, K. Mullin, and S. Stienessen. 2000. Acoustic detection distances of sperm whales in the Gulf of Mexico. *J. Acoust. Soc. Am.* 108(5): 2539(A).
- Thode, A.M., **D.K. Mellinger**, S. Stienessen, A. Martinez, and K.D. Mullin. 2000. Three-dimensional localization of diving sperm whales using a short-aperture towed horizontal array. *J. Acoust. Soc. Am.* 108(5): 2540(A).
- Hayes, S.A., A. Kumar, D.P. Costa, B.L. Southall, J.T. Harvey, B.J. LeBoeuf, and **D.K. Mellinger**. 1999. I am harbor seal, hear me roar: A playback experiment. Thirteenth Biennial Conf. Biol. Marine Mamm., p. 79.
- Mellinger, D.K.** 1999. A two-stage process for automatic recognition of harbor seal vocalizations. *J. Acoust. Soc. Am.* 106(4): 2164(A).
- Hayes, S.A., **D.K. Mellinger**, J.F. Borsani, D.P. Costa, and D.A. Croll. 1998. The Poor Boy Buoy: a low-cost sound recording and localization system. Poster. Proc. World Marine Mamm. Sci. Conf., p. 62.
- Mellinger, D.K.** 1998. Using automatic call recognition for marine mammal research. Poster. Proc. World Marine Mamm. Sci. Conf., p. 90.
- Hayes, S.A., D.P. Costa, D. Croll, **D.K. Mellinger**, and J.F. Borsani. 1997. Inexpensive passive acoustic animal tracking system. *J. Acoust. Soc. Am.* 102(5): 3212–3213(A).
- Mellinger, D.K.** 1996. Geographic and seasonal variation in blue and finback whale vocalizations. *J. Acoust. Soc. Am.* 99(4): 2534(A).
- Mellinger, D.K.**, and C.W. Clark. 1995. Characteristics of fin and blue whale vocalizations recorded from IUSS in the north and west Atlantic. Poster. Abstract in Eleventh Biennial Conf. Biol. Marine Mamm., p. 76
- D'Spain, G.L., W.A. Kuperman, C.W. Clark, and **D.K. Mellinger**. 1995. Simultaneous source ranging and bottom geoacoustic inversion using shallow water, broadband dispersion of fin whale calls. *J. Acoust. Soc. Am.* 97(5): 3353(A).
- Mellinger, D.K.**, and C.W. Clark. 1994. Methods for automatic detection of mysticete calls. *J. Acoust. Soc. Am.* 96(5): 3317(A).
- Clark, C.W., and **D.K. Mellinger**. 1994. Application of Navy IUSS for whale research. *J. Acoust. Soc. Am.* 96(5): 3315(A).
- Mellinger, D.K.**, and C.W. Clark. 1994. A publicly accessible database for marine mammal call classification research. *J. Acoust. Soc. Am.* 96(5): 3298(A).
- Mellinger, D.K.**, B.A. Weisburn, S.G. Mitchell, and C.W. Clark. 1994. Measuring regular whale call intervals with the summed autocorrelation. *J. Acoust. Soc. Am.* 95(5): 2881(A).
- Mellinger, D.K.**, and C.W. Clark. 1993. Methods for the automatic detection of mysticete calls. Tenth Biennial Conf. Biol. Marine Mamm., p. 76.
- Clark, C.W., C.J. Gagnon, and **D.K. Mellinger**. 1993. Whales '93: The application of Navy IUSS technology for low-frequency marine mammal research. Invited presentation, Tenth Biennial Conf. Biol. Marine Mamm.
- Potter, J.R., and **D.K. Mellinger**. 1993. Application and comparison of neural networks for marine mammal call classification. *J. Acoust. Soc. Am.* 94(3): 1822(A).
- Mellinger, D.K.** 1993. Bioacoustic transient detection by image convolution. *J. Acoust. Soc. Am.* 93(4): 2358(A).

TEACHING AND ADVISING

Credit Courses

- Winter 2013 Oregon State U. Co-teacher (with Dr. Holger Klinck), Oceanography 599 & Fish & Wildlife 599, "Introduction to Animal Bioacoustics"
- Fall 1996 Cornell Univ. Co-teacher (with Profs. C.W. Clark and R. Hoy), Biology 496, "Bioacoustic Signals in Animals and Man"; ca. 12 students
- Spring 1995 Cornell Univ. Co-teacher (with Profs. C.W. Clark and R. Hoy and postdoc T. Forrest), Biology 496, "Bioacoustic Signals in Animals and Man"; ca. 12 students
- Spring 1991 Stanford Univ. and Winter 1992 Co-teacher (with Prof. J. Chowning), Computer Science and Music Depts., "Research in Computer-Generated Music"; ca. 12 students each quarter
- Spring 1989 Stanford Univ. Teaching Assistant, Computer Science Dept., "Programming Language Design"; ca. 20 students
- Spring 1988- Winter 1992 Stanford Univ. Teaching Assistant and principal organizer, Computer Science and Music Depts., "Computational Models of Sound Perception" (weekly seminar)

Non-Credit Courses and Workshops

- Jan. 2011 - Mar. 2021 (approximately biennially). Guest lecture in Acoustical Oceanography (OC679), "Using passive acoustics to study marine mammals."
- Sep. 2018, Sep. 2019. Guest Lecturer, Math Camp (OC515), "Large-scale, Long-term Acoustic Surveys of Marine Mammals."
- Sep. 2019. Co-author of "A framework for cetacean density estimation using slow-moving autonomous ocean vehicles," seminar presented by D. Harris at Centre for Research into Ecological and Environmental Modelling.
- Jan. 2017, June 2018. Lead organizer and presenter, "Detection of Marine Mammal Sounds: A Passive Acoustic Training Workshop," San Diego (2017) and Kingston, RI (2018).
- Aug. 2011. Lead organizer and lecturer of tutorial "Introduction to Detection, Classification, and Classification," presented in association with the Fifth International Workshop on Detection, Classification, Localization, and Density Estimation of Marine Mammals using Passive Acoustics, 21-25 August 2011, Mt. Hood, Oregon.
- Jun. 2010. Lecturer on "Signal Processing and Analysis", Marine Bioacoustics Summer School (SeaBASS), State College, PA, June 21-26.
- Nov. 2009. Lecturer on "Signal processing and analysis: detection, classification and localization of marine mammal sounds." Workshop on Acoustic Monitoring and Mitigation Systems, Nov. 17-19, 2009, Boston.
- Mar. 2007. Lecturer and teacher at the Conference and Workshops on Passive Acoustic Monitoring of Marine Mammals at Sea, Edinburgh. Lectured on two topics: "Principles and approaches to automatic detection and classification: a non-technical overview" and "Broader considerations for the future development of PAMGUARD." Also helped teach the "Coding and developers' workshop."

- Nov. 2005. Lecturer at the 2nd International Workshop on Detection and Localization of Marine Mammals Using Passive Acoustics, Monaco, on three topics: “Optimized detection of sperm whale clicks,” “Detection and localization with Ishmael and PAMGUARD,” and “MobySound: Online datasets for research in automatic call detection and classification.”
- May 2004. Lecturer at Shipping Noise and Marine Mammals: A Forum for Science, Management, and Technology, Arlington, VA, on “A Global Observatory for Studying Marine Noise.”
- Nov. 2003. Preparer of a lecture for the Workshop on Detection and Localization of Marine Mammals Using Passive Acoustics, Halifax, NS, on “A comparison of optimized methods for detecting right whale calls.” (A colleague actually delivered this lecture for me due to the impending birth of my child.) Also assisted with preparation of another lecture at this workshop, “Long-term acoustic detection and localization of North Pacific right whales in the Bering Sea.”
- Nov. 2002. Co-organizer (with Dr. J. Barlow) of a workshop, “Future Directions for Marine Mammal Acoustic Surveys: Stock Assessment and Habitat Use.” 27 participants.
- Dec. 1995. Invited lecturer at the ASA Bioacoustics Short Course, a two-day workshop co-sponsored by the Acoustical Society of America and the Marine Mammal Society. Approximately 100 attendees.
- Aug. 1995, 1996, 1997. Invited lecturer at one-month workshop, “Bioacoustical Oceanography Workshop: Top Predators and their Prey in the Marine Environment.” Lectured on acoustic tracking of wild animals and on automatic call recognition, and led field research projects.
- Sept. 1994. Lecturer, International School of Ethology 9th Workshop: Underwater Bioacoustics. Lectured on “Sound production from blue, finback, and minke whales: Implications for basic research and environmental monitoring,” co-prepared with Prof. C.W. Clark.

Advising

- Summer 2017-Jan. 2021. Committee member of Ph.D. student Samara Haver, Dept. of Fisheries and Wildlife.
- Winter 2017-June 2020. Co-advisor and committee member of Ph.D. student Selene Fregosi, Dept. of Fisheries and Wildlife.
- Spring 2018-Spring 2019. Honors Undergraduate Thesis Advisor, Zachary Pinard.
- Summer 2014-June 2018. Co-advisor for Ph.D. student Michelle Fournet, Dept. of Fisheries and Wildlife.
- Apr. 2016-Mar. 2017. Sponsored and advised Postdoctoral Fellow Dr. Danielle Harris, who studied methods for density estimation of marine mammals using passive acoustics.
- Jan. 2012-Jun. 2014. Regularly working with doctoral student Qi Lou in Dept. of Electrical Engineering and Computer Science.
- Fall 2011-Spring 2014. Committee member for masters student Michelle Fournet, Dept. of Fisheries and Wildlife.
- Sep. 2011-Jun. 2012. Supervised intern Marci Shindel of Corvallis, OR.
- June 2009-March 2011. Advised and supervised Postdoctoral Fellow Lu Yang, who studied subspace models for detection and classification of marine mammal vocalizations.

Oct. 2008–May 2012. Advised and supervised Postdoctoral Scholar Elizabeth Küsel, who investigated acoustic propagation methods for density estimation of marine mammals.

2008–2014. Sponsored and advised Dr. Holger Klinck, first as a Postdoctoral Fellow and then as an Assistant Professor in my laboratory, on a wide variety of research topics in passive acoustic monitoring of marine mammals.

2008–09. Committee member for masters student Sharon Glaeser, Portland State University.

Aug.–Nov. 2007. Supervised intern Marguerite Tarzia of Deakin University, Australia.

Sep. 2005–Dec. 2006. Advisor for Hisham Qayum, an Acting Postdoctoral Researcher in CIMRS. Dr. Qayum performed marine mammal acoustics research, particularly development of detection and localization software for the PAMGUARD and ISHMAEL software packages to develop effective marine mammal survey methods.

Jun.–Aug. 2002. Supervised intern Erin Jackson of the University of New Mexico.

Oct.–Dec. 2001. Supervised intern Rita Bento of the Universidade de Açores (University of the Azores), Portugal.

Summer 1997. Supervised intern Teri E. Nicholson of California State University, San Francisco. A poster presentation from this project, “Social function of underwater vocalization displays by male harbor seals off Monterey, California,” won the best-poster prize at the 1998 Research Symposium, Monterey Bay National Marine Sanctuary.

ORGANIZATION OF PROFESSIONAL CONFERENCES, SEMINARS, ETC.

Dec. 2021. Chair of session 1pABa “Animal Bioacoustics: Population monitoring”, fall 2021 conference of the Acoustical Society of America, Seattle.

May 2018. Organizer and chair of session 2aAB, “History of Animal Bioacoustics”, spring 2018 conference of the Acoustical Society of America, Minneapolis.

Dec. 2017. Co-organizer and co-chair (with N. Sidorovskaia) of sessions 2aAB and 2pAB, “In Memory of George Ioup: Acoustics in the Gulf of Mexico I and II”, fall 2017 conference of the Acoustical Society of America, New Orleans.

Jun. 2017. Organizer and chair of session 2pABb, “Data Management, Detection, Classification, and Localization”, spring 2017 conference of the Acoustical Society of America, Boston.

Feb. 2017. Co-organizer and co-chair (with N. Sidorovskaia, A. Baldera, E. Fetherston-Resch, L. Schwacke, and M. Baumgartner) of special session 004, “Understanding Population Status, Trends and Connectivity of Gulf of Mexico Large Marine Vertebrates as Sentinels for Ecosystem Health in the Context of Restoration”, 2017 Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans.

May 2016. Co-organizer and co-chair (with J. Hildebrand) of AB special session “Effects of noise on animals,” spring 2016 conference of the Acoustical Society of America, Salt Lake City.

Feb. 2016. Co-chair of special session 18, “Fusion of Bio-physical Data and Predictive Modeling to Understand Gulf of Mexico Marine Species Resilience to Environmental Stresses and Disasters, 2016 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Tampa.

Oct. 2014. Co-organizer and co-chair of special sessions 1pAB, “Array Localization of Vocalizing Animals” (with M. Fournet), and 2aAB, “Mobile Autonomous Platforms for

- Bioacoustic Sensing” (with H. Klinck), fall 2014 conference of the Acoustical Society of America, Indianapolis, IN.
- June 2013. Chair of session “Mobile Acoustic Autonomous Platforms”, 6th International Workshop on Detection, Classification, Localization, and Density Estimation of Marine Mammals using Passive Acoustics, 12-15 June 2013, St. Andrews, Scotland.
- June 2013. Organizer and chair of special session 2aAB, “Conditioning, Segmentation, and Feature Extraction in Bioacoustic Signals”, spring 2013 joint conference of the Acoustical Society of America and the International Congress on Acoustics, Montreal, Canada.
- May 2012. Session chair, “Acoustic Tagging of Animals”, Acoustics 2012 conference, Hong Kong.
- Aug. 2011. Conference chair, Fifth International Workshop on Detection, Classification, Localization, and Density Estimation of Marine Mammals using Passive Acoustics, 21-25 August 2011, Mt. Hood, Oregon.
- May 2011. Organizer and chair of special session 4pAB, “Killer Whale Acoustics”, spring 2011 conference of the Acoustical Society of America, Seattle, WA.
- Nov. 2010. Organizer and chair of special session 2aAB, “Animal Bioacoustics: Software for Bioacoustic Analysis,” fall 2010 conference of the Acoustical Society of America, Cancún, Mexico.
- Apr. 2010. Organizer and chair of special session 2pAB, “Estimating Spatial Density of Animal Populations with Passive Acoustics,” spring 2010 conference of the Acoustical Society of America, Baltimore.
- Apr. 2010. Organizer and co-chair of special sessions 1aAO, “Acoustics in Polar Environments I,” and 1pAO, “Acoustics in Polar Environments II,” spring 2010 conference of the Acoustical Society of America, Baltimore.
- Nov. 2009. Chair of “Signal Processing” session, Workshop on Acoustic Monitoring and Mitigation Systems, Nov. 17-19, 2009, Boston.
- Oct. 2009. Organizer and chair of special session “Acoustical Surveys, Sampling, and Population Assessment of Animals.” Fall 2009 conference of the Acoustical Society of America.
- Aug. 2008. Conference chair, Second International Conference on Acoustic Communication by Animals, Corvallis.
- Jun. 2008. Organizer and chair of special sessions 3aABb, “Odontocete Acoustics I”, and 4pABc, “Odontocete Acoustics II”, for the joint conference of the Acoustical Society of America and the European Acoustics Association, Paris.
- Nov. 2007. Member of the Scientific Program Committee, 17th Biennial Conference on the Biology of Marine Mammals, Cape Town.
- Sep. 2007. Organizer and chair of a one-day workshop, “Odontocete Sound Datasets for Automatic Detection and Localization,” Boston. 11 participants.
- Jul. 2007. Session chair: “Detection and Classification,” 3rd International Workshop on the Detection and Classification of Marine Mammals Using Passive Acoustics, Boston.
- Jul. 2007. Member of the Scientific Committee, 3rd International Workshop on the Detection and Classification of Marine Mammals Using Passive Acoustics, Boston.
- Mar. 2007. Session chair for two sessions: “Applications of passive acoustic monitoring” and “Wider applications for passive acoustic monitoring within the PAMGUARD framework.”

Conference and Workshops on Passive Acoustic Monitoring of Marine Mammals at Sea, Edinburgh.

- Dec. 2006. Organizer and chair of special session “Animal Bioacoustics: Marine Mammal Acoustics.” Fall 2006 conference of the Acoustical Society of America.
- Nov. 2005. Session chair for two sessions, “Detection” and “Localization.” 2nd International Workshop on Detection and Localization of Marine Mammals Using Passive Acoustics, Monaco.
- Nov. 2005. Member of the scientific committee, 2nd International Workshop on Detection and Localization of Marine Mammals Using Passive Acoustics, Monaco.
- Nov. 2002. Co-organizer (with Dr. J. Barlow) of a workshop, “Future Directions for Marine Mammal Acoustic Surveys: Stock Assessment and Habitat Use.” 27 participants.
- Dec. 2000. Session organizer and chair: “Acoustic localization and censusing of wild animals.” Fall 2000 conference of the Acoustical Society of America.
- Nov.–Dec. 1999. Session chair: “New technology.” 13th Biennial Conference on the Biology of Marine Mammals.
- Nov.–Dec. 1999. Invited representative, “Careers in Marine Mammal Science: Acoustics.” Student Affairs Workshop, 13th Biennial Conference on the Biology of Marine Mammals.
- May 1995. Session organizer and co-chair: “Recognition of Animal Sounds” and “Passive Acoustic Tracking of Animals.” Spring 1995 conference of the Acoustical Society of America.
- Mar. 1995–Jan. 1996. Organizer of a seminar series covering topics in animal communication and acoustics.
- Dec. 1988–Nov. 1990, Stanford University. Principal organizer and teaching assistant of a weekly research seminar, “Computational Models of Sound Perception.”

GRANTS RECEIVED

Acoustically-equipped Gliders for Marine Mammal Oceanography Research

Funding source: Office of Naval Research (DURIP)

\$340,600

30 April 2020 – 30 September 2020

Improved Analysis of Harbour Porpoise Sounds

Funding source: Offshore Energy Research Association

\$73,584

15 April 2020 – 15 September 2020

Unmanned Underwater Vehicle (UUV) Technology to Enable Range Readiness

Funding source: Small Business Innovation Research program

Lead PI: Triton Systems, Inc.

\$12,145 (OSU)

1 June 2020 – 31 December 2020

Pacific Marine Program Review

Funding source: US Naval Facilities, via HDR, Inc.

Lead PI: Daniel Palacios

\$11,467

4 January 2019 – 31 December 2019

Gulf of Mexico Acoustic Monitoring Program

Funding source: Bureau of Ocean Energy Management

Lead PI: HDR, Inc.

\$199,786 (OSU)

1 January 2018 – 31 December 2019

Autonomous Underwater Vehicle Passive Acoustic Monitoring of Beaked Whales in the Southern California Area.

Funding source: US Naval Facilities, via HDR, Inc.

\$300,242

1 October 2018 - 30 June 2020

Biologically Sourced Sonar and Soundscape Interrogation – OSU

Funding source: DARPA

Lead PI: Raytheon, Inc.

\$377,348 (OSU)

1 November 2018 – 31 December 2021

Gulf of Mexico Research Completion and Synthesis

Funding source: Gulf of Mexico Research Initiative

Lead PI: Natalia Sidorovskaia, Univ. Louisiana, Lafayette

\$100,000 (OSU)

Study of the Effects of Vessel Traffic on Marine Mammal Vocalizations in Glacier Bay

Funding source: National Park Service

Lead PI: Holger Klinck then David K. Mellinger

\$275,709

1 April 2015 – 31 January 2018

Field testing and performance evaluation of the Long-term Acoustic Real-time Sensor for Polar Areas

Funding source: Office of Naval Research, via Cornell University

Lead PI: Haru Matsumoto, OSU

\$277,042

15 April 2015 – 30 September 2016

Demonstration of a Commercially Available High-performance PAM Glider and Profiler Float

Funding source: Living Marine Resources Program, U.S. Navy

Lead PI: Haru Matsumoto, OSU

\$468,277

2 April 2014 – 31 March 2016

An Ocean-Noise Budget for the Rapidly Changing Arctic: Quantifying the Contribution of Vessel Traffic and Seismic Exploration

Funding source: NOAA Ocean Acoustics Program

Lead PI: Sharon L. Nieuwirth, OSU

\$59,992

1 October 2014 – 30 September 2015

American National Standard on Towed Passive Acoustic Monitoring and Mitigation Systems

Funding source: Office of Naval Research, via University of California, San Diego

Lead PI: Aaron Thode, University of California, San Diego

My portion: \$25,000

10 October 2014 – 3 October 2016

Littoral Acoustic Demonstration Center: Gulf Ecological Modeling and Monitoring

Funding source: Gulf of Mexico Research Initiative

Lead PI: Natalia Sidorovskaia, Univ. Louisiana at Lafayette

\$5,238,174 (my portion: \$969,171)

1 January 2015 – 31 December 2017

Simple performance-characterized automatic detection of marine mammal sounds

Funding source: Living Marine Resources Program, U.S. Navy

Lead PI: David K. Mellinger

\$863,701

24 April 2014 – 31 October 2018

An Investigation of Fin and Blue Whales in the NE Pacific Ocean using Data from Cascadia Initiative Ocean Bottom Seismometers

Funding source: Office of Naval Research, via Univ. Washington

Lead PI: William Wilcock, Univ. Washington

Approx. \$300,000 (my portion: \$94,358)

1 June 2014 – 31 May 2017

Long-term Acoustic Real-Time Sensor for Polar Areas (LARA)

Funding source: US Navy (Defense University Research Instrumentation Program)

Lead PI: Holger Klinck, OSU

\$476,335

1 July 2012 – 31 June 2014

Advanced Methods for Passive Acoustic Detection, Classification, and Localization of Marine Mammals

Funding source: Office of Naval Research

Lead PI: David K. Mellinger

\$1,085,734 (my portion: \$288,225)

1 July 2011 – 31 June 2014

Marine Mammal Effects from T&E on Ocean Ranges (METEOR)

Funding source: Advanced Instrumentation Systems Technology (AIST) Science & Technology

Lead PI: David J. Moretti, Naval Undersea Warfare Center

\$1,269,535 (my portion: \$342,830)

1 August 2011 – 31 July 2014

Cheap DECAF: Density Estimation for Cetaceans from Acoustic Fixed sensors using separate, non-linked devices

Funding source: Office of Naval Research

Co-PIs: David K. Mellinger, OSU, and Len Thomas, Univ. St. Andrews

\$601,433 (my portion: \$178,630)

1 April 2011 – 31 March 2013

Detection, Classification, and Localization Workshop 2011

Funding source: Office of Naval Research

PI: David K. Mellinger

\$29,095

1 January 2011 – 31 May 2012

Monitoring Pinniped Responses to Pile-Driving Noise

Funding source: Pacific Habitat Services, Inc.

P.I.: David K. Mellinger

\$21,009

1 November 2010 – 30 June 2011

Next-Generation Bioacoustic Analysis Software

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$638,738

1 July 2010 – 31 December 2013

Acoustically-equipped Ocean Gliders for Environmental and Oceanographic Research

Funding source: Office of Naval Research (DURIP)

\$332,815

15 June 2013 – 31 December 2015

Passive Acoustic Assessment of Marine Mammals and Ocean Noise Levels in the Greenland Sea and Fram Strait: A Pilot Study

Funding source: Marine Mammal Commission

Lead P.I.: Holger Klinck, OSU

\$25,021

1 October 2010 – 31 July 2011

Development and Testing of an Acoustic Deterrent Device for Migrating Gray Whales along the Oregon Coast

Funding source: Department of Energy

Lead P.I.: Bruce Mate, OSU

\$593,846 (my portion: \$22,554)

1 September 2010 – 31 December 2011

Detection, classification, and density estimation of marine mammals

Funding source: Office of the Chief of Naval Operations

P.I.: David K. Mellinger

\$574,537

1 July 2010 – 30 June 2014

Passive Autonomous Acoustic Monitoring of Marine Mammals with Seagliders

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$393,863

1 January 2010 – 31 December 2011

Analysis of Acoustic Data Collected in the Beaufort Sea

Funding source: Minerals Management Service

P.I.: David K. Mellinger

\$92,748

1 May 2009 – 30 June 2011

Application of an Adaptive Sampling Strategy for Passive Acoustic Detection of Cetaceans

Funding source: Pennsylvania State University

P.I.: David K. Mellinger

\$12,877

28 April 2009 – 27 April 2010

Long-Term Acoustic Recording tag (LARA) and Acoustic Release

Funding source: OSU Research Equipment Reserve Fund

P.I.: David K. Mellinger

\$23,933

1 Feb 2009 – 31 Aug 2009

Factors influencing the acoustic behavior and nearshore residence of the gray whale (*Eschrichtius robustus*) along their migration route

Funding source: Office of Naval Research

Lead P.I.: Timothy J. Cowles, OSU

\$701,869 (my portion: \$184,064)

1 Jan 2009 – 31 Dec 2011

Development and calibration of a sound propagation model for the Oregon coast

Funding source: Department of Energy

Lead P.I.: George Boehlert

\$588,663 (my portion: \$19,971)

15 September 2008 – 14 March 2012

Acoustic Float for Marine Mammal Monitoring

Funding source: Office of Naval Research

Lead P.I.: Haru Matsumoto, OSU

\$300,615

30 July 2008 – 30 June 2011

Automatic Detection of Beaked Whales from Acoustic Seagliders

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$400,167

1 July 2008 - 30 June 2012

Datasets of Odontocete Sounds Annotated for Developing Automatic Detection Methods

Funding source: Office of the Chief of Naval Operations

P.I.: David K. Mellinger

\$740,000

1 July 2006 – 30 June 2011

Second International Conference on Acoustic Communication by Animals

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$13,256

1 May 2008 – 30 April 2009

Acoustic Whale Monitoring in the Southeastern Bering Sea

Funding source: Minerals Management Service

P.I.: David K. Mellinger

\$199,535

1 March 2008 – 30 September 2012

DECAF: Density Estimation for Cetaceans from passive Acoustic Fixed sensors

Funding source: National Oceanographic Partnership Program

Lead P.I.: Len Thomas, University of St. Andrews

\$1,525,860 (my portion: \$197,958)

1 August 2007 – 28 February 2011

Book: Marine Bioacoustic Signal Processing and Analysis

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$61,399

1 June 2007 – 31 December 2010

Bowhead Whale Feeding in the Western Beaufort Sea: Passive Acoustic Survey Component

Funding source: Minerals Management Service

P.I.: David K. Mellinger

\$90,359

1 July 2007 – 30 June 2009

Using Whale Calls to Compare Baleen Whale Distribution and Habitat Across the Mid-Atlantic Ridge

Funding source: NOAA Alaska Fisheries Science Center

P.I.: David K. Mellinger

\$46,396

1 July 2007 – 30 September 2009

Analysis of Acoustic and Oceanographic Data from the Bering Sea

Funding source: North Pacific Research Board

P.I.: David K. Mellinger and Kathleen M. Stafford (University of Washington)

\$52,688 total; OSU portion: \$19,478

1 July 2007 – 30 June 2008

Earthquakes and Endangered Whales: Acoustic Exploration off Southern Greenland

Funding source: NOAA Office of Ocean Exploration

P.I.: David K. Mellinger and Robert Dziak (OSU)

\$337,000

1 October 2006 – 30 September 2008

Datasets of Odontocete Sounds Annotated for Developing Automatic Detection Methods

Funding source: Office of the Chief of Naval Operations

P.I.: David K. Mellinger

\$740,000

1 July 2006 – 30 June 2009

Passive Acoustic Monitoring System Development for Ishmael, 3-D Sperm Whale Tracking, and Directional Cardioid Sensor Processing (2005); PAMGUARD Phase III (2006); PAMGUARD Phase IV (2007)

Funding sources: Industry Research Funders Coalition and Joint Industry Programme

P.I.: David K. Mellinger

\$377,223 (total of 3 grants)

1 May 2005 – 30 April 2008

Exploring for Submarine Volcanic Activity and Associated Extreme Ecosystems of the Drake Passage and Antarctic Peninsula Using Passive Underwater Acoustics

Funding source: NOAA Office of Ocean Exploration

P.I.: Robert Dziak (OSU) and David K. Mellinger

\$191,767

1 October 2005 – 1 January 2007

Ishmael Development and Research Cruise

Funding source: NOAA Northwest Fisheries Science Center

P.I.: David K. Mellinger

\$17,251

1 March 2006 – 28 February 2007

Oceanographic Correlates of the Occurrence of Endangered Whales in the Bering Sea

Funding source: North Pacific Research Board

P.I.: David K. Mellinger

\$184,383

1 May 2005 – 30 April 2008

An Annotated and Federated Digital Library of Marine Animal Sounds

Funding source: National Oceanographic Partnership Program

Lead P.I.: Jack Bradbury, Cornell University

\$811,148 total; OSU portion, \$40,211

1 June 2004 – 31 May 2006

Passive Acoustic Monitoring for Right Whales in Historic and Unsurveyed Habitats

Funding source: Right Whale Grants Program, National Marine Fisheries Service

P.I.: David K. Mellinger

\$173,028

1 October 2003 – 30 September 2006

Software for Acoustic Analysis

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$395,926

1 June 2003 – 31 May 2006

Acoustic Marine Mammal Assessment: Tools for the Next Level

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$321,250

1 November 2002 – 31 October 2005

Acoustic Detection of Blue and Right Whales in the Gulf of Alaska

Funding source: Alaska Fisheries Science Center, National Marine Fisheries Service

P.I.: David K. Mellinger

\$19,300

1 August 2002 – 31 May 2003

Acoustic Detection of Sperm Whales in the Gulf of Alaska

Funding source: Southwest Fisheries Science Center, National Marine Fisheries Service

P.I.: David K. Mellinger

\$10,700

30 July 2002 – 22 November 2002

Analysis of Ocean Acoustic Data

Funding source: Scripps Institution of Oceanography

P.I.: David K. Mellinger

\$29,943

15 January 2001 – 14 January 2003

Tools And Techniques For Marine Animal Sound Analysis

Funding source: Office of Naval Research

P.I.: David K. Mellinger

\$219,507

1 April 2000 – 30 September 2002

Long-term Acoustic Monitoring of Harbor Seals in Monterey Bay

Funding source: Monterey Bay Aquarium Research Institute

P.I.: David K. Mellinger

\$189,843

15 January 1997 – 14 January 1999

SERVICE

Service to the Department

May 2001–2010. Member, CIMRS Science Advisory Committee.

Service to the University

Sep.-Oct. 2014. Interviewer for Fulbright foreign study applicants from Oregon State University.

Mar. 2013. Panel member, Thinking About Animals Thinking, Spring Creek Project, Oregon State University.

May 2010. Speaker and panel member, Town Hall Meeting on Acoustic Deterrence, Oregon State University.

May 2010. Invited speaker, Hatfield Marine Science Center Seminar Series.

Nov. 2009. Guest lecturer for The Natural History of Whales and Whaling (Fisheries & Wildlife 499/599).

May 2007. Guest lecturer for Acoustical Oceanography (Oceanography 679)

Jul. 2005. Guest lecturer for Biology of Marine Mammals (Fisheries and Wildlife 499/599).

Nov. 2004–Jul. 2005. Member, Cetacean Biologist Search Committee, Hatfield Marine Science Center, OSU.

Oct. 2004–2006. Member, Committed to Diversity (C2D) task force, OSU.

Jun. 2004. Guest lecturer for Marine Biology (Biology 450/550).

Oct. 2003. Invited speaker, Hatfield Marine Science Center Seminar Series.

Jun. 2002. Guest lecturer for Principles of Physical Oceanography (Oceanography 430/530).

Service to the Profession

Jun. 2006–present. Member, Technical Committee on Animal Bioacoustics, Acoustical Society of America.

Aug. 2014–present. Member, Detection and Classification Metrics Committee.

2017-18. Scientific Committee, 8th International Workshop on Detection, Classification, Localization, and Density Estimation of Marine Mammals using Passive Acoustics, Paris.

2016-17. Advisory Committee, 4th International Symposium on Acoustic Communication by Animals.

Sep. 2016. Acoustics of whales and dolphins. Presentation at Physics Dept. Colloquium, Univ. Louisiana at Lafayette.

Jun. 2013–2017. Associate Editor for Animal Bioacoustics, Journal of the Acoustical Society of America.

2009–2013. Associate Editor for acoustics, Marine Mammal Science.

Dec. 2005–present. Member, Working Group S1/WG 28, developing a standard for Passive Acoustic Monitoring for Marine Mammal Mitigation for Seismic Surveys.

1996–present. Web site creator, and now contributing editor, for the Animal Bioacoustics Technical Committee of the Acoustical Society of America (<http://www.animalbioacoustics.org/>).

1994–present. Moderator and manager of the scientific email list Bioacoustics-L.

May 2009–May 2012. Member, Technical Council, Acoustical Society of America.

May 2009–May 2012. Chair, Technical Committee on Animal Bioacoustics, Acoustical Society of America.

Summer 2009. Scientific Review Committee, 18th Biennial Conference on the Biology of Marine Mammals.

Sep. 2003–Aug. 2006. Attendee and presenter at several meetings (Oct. 2003 in Seattle, Feb. 2004 in La Jolla, May 2004 in Arlington, VA, Oct. 2004 in Providence, Apr. 2006 in Woods Hole) and many telephone conference calls (throughout this period) addressing the impacts of ocean noise on marine mammals.

Apr. 2003–present. Attendee and presenter at meetings (Apr. 2003 in Portland, Apr. 2005 in Skamania, WA) and preparer of scientific justifications for planning ocean observatory systems, including NEPTUNE and ORION.

2000–present. Reviewer of articles and proposals, roughly 10 per year in recent years. The journals involved include the Journal of the Acoustical Society of America, Aquatic Mammals, Marine Mammal Science, and others; the funding agencies are principally NSF and NOAA.

Oct. 2002. Attendee and presenter at a meeting of Working Group 118 (New Technologies for Observing Marine Life) of the Scientific Committee on Oceanic Research (SCOR), Lima, Peru. Presented a talk on “New Technology for Marine Mammal Research and Monitoring.”

Mar. 2001. Attendee and presenter at a meeting on Right Whale Acoustics and Conservation, Providence.

2001–2010. Provider of free software for bioacoustic analysis via the MobySoft web site (<http://cetus.pmel.noaa.gov/cgi-bin/MobySoft.pl>).

Service to the Public (professionally related)

Jun.-Jul. 2020. Scientific Consultant for “The Loneliest Whale”, an episode of the *Reactions* video series by PBS and the American Chemical Society.

May 2020. Contributed expertise and audio material to an exhibit by the Exploratorium science museum for World Oceans Day 2020.

Apr. 2019. Presented “Echoes from the deep: Exploring the oceans through acoustics” at the 2019 Da Vinci Days STEAM Lecture Series, Corvallis, OR.

Mar. 2018. Science/engineering judge, Oregon Coast Renewable Energy Challenge.

Feb. 2017. Lead presenter, “SeaGlide Educators’ Workshop”. Coastal Education Research Facility, Univ. New Orleans.

- Feb. 2016. Lead presenter, “SeaGlide Educators’ Workshop”. Hatfield Marine Science Center, Oregon State University, Newport.
- Dec. 2015. Presented “Conversations about landscape: marine mammals at the poles: sentinels for climate change”, and participated in subsequent panel discussion. Exploratorium interactive science museum, San Francisco.
- Dec. 2013. Interview with radio station KNPT about ocean sound and marine mammal bioacoustics.
- Sep. 2011-Dec. 2013. Presented “Acoustic Communication in Whales and Dolphins” at the Corvallis Science Pub; at the Albany (OR) Public Library; at the Eugene and Bend Science Pubs; and at the Newport Rotary Club. Sponsorship by Oregon State University, the Oregon Museum of Science and Industry, and the Newport Rotary Club.
- Dec. and Mar. 2011 (one week each time). Scientist in Residence, Exploratorium interactive science museum, San Francisco. Gave presentations and hosted interactive exhibits about ocean sound for several audiences.
- Oct. 2010. Contributed sounds for “Ocean Giants”, a TV series about cetaceans by the BBC Natural History Unit.
- Jul. 2010. Contributed sounds for cetacean exhibition at the National Centre of Biodiversity Naturalis, Amsterdam, The Netherlands.
- Apr. 2010. Provided expertise and interview for Discovery Channel (TV) segment on mystery ocean sound.
- Jan. 2010. Helped prepare, and contributed images and sounds to, the “Whale Call” video exhibit of NOAA’s Ocean Today kiosk, Smithsonian Museum of Natural History, Washington, DC, and 16 other science museums in the U.S. and Mexico. Link: <http://oceantoday.noaa.gov/whalecall/>
- Apr. 2009. Invited presentation on Marine Mammals and Sound, SMILE (Science & Math Investigative Learning Experiences) Program High School Challenge, Monmouth and Corvallis, OR.
- Apr. 2009. Contributed sounds to the “Beyond Penguins” podcast series by the National Science Digital Library.
- 2005-present, approximately three times per year. Gave presentations on Marine Mammals and Ocean Sound in local schools.
- Oct. 2008. Invited participant, Workshop on Potential Effects on Whales from Wave Power Projects, Portland, OR, October 9-10, 2008, and contributor to the ensuing report.
- Oct. 2007. Invited participant for “Marine Mammals” and “Acoustics” sessions, Ecological Effects of Wave Energy Development in the Pacific Northwest, Newport, OR, and contributor to the ensuing report.
- Sep. 2007. Helped design, and provided display software and sound recordings for, an exhibit on marine acoustics for the Hatfield Marine Science Center Visitor Center, Newport, OR.
- Dec. 2003–present. Member, Board of Directors, Acoustic Ecology Institute. This non-profit group informs the public about the impacts of noise and other sounds on marine and terrestrial animals.
- 1995–present. Occasional interviewee (average 1-2 times per year) for newspaper, magazine, radio, television, and on-line articles about marine mammals and sound.

Apr. 2000–present. Co-editor of and contributor to the web site “Bioacoustics: Monitoring marine mammals using acoustics” of the NOAA/PMEL Vents program.

May 2007. Advisor to the National Wildlife Federation’s Ranger Rick children’s magazine for information on whale sound.

Mar. 2006 and Mar. 2007. Invited presenter, Tigard-Tualatin High Schools Career Night.

Apr. 2005. Invited speaker, Audubon Society of Corvallis, on “Whale and Bird Sounds.”

Jun.–Jul. 2004 and Aug. 2005. Presenter of lectures on marine mammal acoustic research and marine mammal conservation to passengers on eco-touring cruises at sea.

Jan. 2004. Invited speaker in the “Nature and Music” series, Spring Creek Project, Department of Philosophy. This was not part of any course, and was attended principally by members of the public from outside OSU.

May 2003. Collaborator on “Saturday Academy” outreach program for high-school students. I produced the software used by students to hear and see marine mammal sounds.

2003. Collaborator for producing the “Sound in the Sea” exhibit at the Visitor’s Center of the Hatfield Marine Science Center, Newport, OR. I wrote the acoustic software used in this exhibit, which is still in place and operating at the Visitor’s Center.

Apr. 2001. Invited speaker, Renaissance Technology, Inc., on “Automatic Recognition of Marine Mammal Sounds.”

Service to the Public (non-professionally related)

July 2020–present. Co-president, Audubon Society of Corvallis.

Aug. 2009–2013. Vice President and Program Chair, Audubon Society of Corvallis.

Aug. 2001–Aug. 2004, Aug. 2005–Aug. 2009, Aug. 2018–July 2020. Conservation Director, Audubon Society of Corvallis.

Aug. 2001–present. Member, Board of Directors, Audubon Society of Corvallis.

Spring 1987–Fall 1996. Taught introductory and advanced courses in technical rock climbing and introductory courses in whitewater kayaking.

Spring 1987–Spring 1990. President, Stanford Alpine Club.

OTHER TRAINING

Oregon State University and National Oceanic and Atmospheric Administration workshops and seminars on diversity, equity, and inclusion – 11 since June 2020.

Oregon State University training on Conflicts of Interest every year since approximately 2014.

National Oceanic and Atmospheric Administration training course “NOAA Information Technology Security Awareness Course” each year since 2005.

Centers for Disease Control “Heads Up: Concussion Training” each year since 2014.

National Oceanic and Atmospheric Administration training course “NOAA Safety and Environmental Compliance” periodically since 2003.

Oregon State University “Sexual Misconduct Awareness and Response Training (SMART)”, Feb. 2018.

Winter-spring 2009. Active participant in Oregon State's "Journey into Leadership" training program.

Oregon State University "Sexual Harassment Prevention Training", Nov. 2008.

Oregon State University training modules "The Humane Care and Use of Laboratory Animals" (Version 2.0) and "Occupational Health and Safety" (Version 2.0), June 2008.

RECOGNITION

Oct. 2009. Elected a Fellow of the Acoustical Society of America "for contributions to the analysis of marine mammal calls."

Aug. 2017. NOAA Silver Medal in Scientific / Engineering Achievement to PMEL Acoustics Team.

PERSONAL

Married, with two boys, 20 and 17.

Enjoy camping and hiking, skiing, bird watching.

Winner, 2017 Corvallis "Sip & Spell" adult spelling bee.