

CURRICULUM VITAE

Donald W. Meritt

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I. EDUCATION:

1972 B.S., St. Mary's College of Maryland, St. Mary's City. Biology.

1993 Ph.D., University of Maryland, College Park. Marine-Estuarine-Environmental Sciences

II. PROFESSIONAL BACKGROUND:

- 1969 Biological Aide, Maryland Department of Natural Resources, Department of Chesapeake Bay Affairs, Annapolis, MD.
- 1972-1973 Biological Aide, University of Maryland, Center for Environmental and Estuarine Studies, Chesapeake Biological Laboratory, Solomons.
- 1973-1975 Faculty Research Assistant, University of Maryland, Center for Environmental and Estuarine Studies, Chesapeake Biological Laboratory, Solomons.
- 1975-1977 Faculty Research Assistant, University of Maryland, Center for Environmental and Estuarine Studies, Horn Point Environmental Laboratories, Cambridge.
- 1977-1981 Biologist II, University of Maryland, Center for Environmental and Estuarine Studies, Horn Point Environmental Laboratories, Cambridge.
- 1982-Present Shellfish Aquaculture Specialist, University of Maryland Cooperative Extension Service, Sea Grant Extension Program, Horn Point Laboratory, Cambridge.
- 1986-1993 Associate Agent, University of Maryland, Center for Environmental and Estuarine Studies, Horn Point Environmental Laboratories, Cambridge.
- 1993-1999 Agent, University of Maryland, Center for Environmental Science, Horn Point Laboratory, Cambridge.
- 1999-Present Senior Agent, University of Maryland, Center for Environmental Science, Horn Point Laboratory. Cambridge.

AWARDS:

1976 Orville Crowder Scholarship: World Nature Association and the Audubon Naturalists Society.

2002. UMCES Presidents Award for Excellence in the Application of Science.

RESEARCH:

A. Areas of Professional Expertise

Culture experience in these species: American oyster *Crassostrea virginica*, Asian Oyster *Crassostrea ariakensis*, soft clam *Mya arenaria*, hard clam *Mercenaria mercenaria*, *Mulinia lateralis*, *Macoma balthica*, *Rangia cuneata*, Antarctic limpet, Antarctic starfish, striped bass *Morone saxatilis*, hybrid striped bass *Morone saxatilis* X *Morone chrysops*, and soft shelled blue crab *Callinectes sapidus*, turbot *Scophthalmus maximus*, hard clam *Tapes philipinarum*.

Special training in these areas: Warm water fish culture, striped bass culture, bird censusing, and SCUBA diving.

Current Research Projects:

Restoration of Oysters in Chesapeake Bay:

Funded through several sources, and includes a wide range of activities. This work has both hatchery and field components and involves significant collaboration with others.

Production of Disease-Free Oysters for use in Oyster Recovery and Area Research. (R/ODR-02) with K. Paynter.

Genetic Analysis of Oyster Recruitment Patterns in Chesapeake Bay. (R/F-92) with K. Paynter and M. Hare.

Cooperative Regional Oyster Selective Breeding (CROSBreed) Project of Potential of Selected Stocks for Restoration and Extensive Planting (R/ODR-08) multi institutional collaboration.

Evaluation of gametogenesis and spawning cues in diploid *Crassostrea ariakensis* for the estimations of environmental risk and establishment of diploid brood stock populations. With Stan Allen

Spawning Interactions Between *Crassostrea ariakensis* and *Crassostrea virginica*, Does the Proposed Introduction of a New Species Pose a Recruitment Threat to Native Oysters? With Stan Allen.

Behavioral responses of *Crassostrea ariakensis* and *Crassostrea virginica* larvae to environmental change under spatially realistic conditions. Roger Newell, Vic Kennedy, Don Meritt (HPL); Joan L. Manuel (HPL Post-doctoral Investigator); Mark Luckenbach and Roger Mann (VIMS)

Analysis of Disease Resistance in Oysters in the Lower Chesapeake Bay. With B. Brown

Culture of the Hard Clam *Mercenaria mercenaria* in Maryland.

EXTENSION PUBLICATIONS:

Webster, D. and D. Meritt. 1985. Oyster Aquaculture Workbook, Work Sheet 1: Purchasing Seed Oysters. UM-SG-MAP-85-02. 4 pp.

Webster, D. and D. Meritt. 1988. Oyster Aquaculture Workbook, Worksheet 2: Stabilizing Oyster Ground. UM-SG-MAP-88-04. 4 pp.

Webster, D., D. Meritt and G. Flick. 1989. Aquaculture in Maryland and Virginia: Problems, Politics and Potential. UM-SG-MAP-89-01. 32 pp.

Bohn, Richard, Don Webster and Don Meritt. 1995. Producing Oyster Seed by Remote Setting. Oyster Aquaculture Workbook Series 3. Maryland Sea Grant Extension Program, UM-SG-MAP-95-03. 8pp.

Meritt, D. W. 1995. Maryland Oyster Recovery Partnership. *Maryland Aquafarmer*, Summer. <http://www.mdsg.umd.edu/Extension/Aquafarmer/Fall95.html#RECOVER><http://www.mdsg.umd.edu/Extension/Aquafarmer/Summer95.html#OYSTER>

Meritt, D. W. 1995. Choptank River Oyster Recovery Area activities begin. *Maryland Aquafarmer*, Fall. <http://www.mdsg.umd.edu/Extension/Aquafarmer/Fall95.html#RECOVER>

Meritt, D. W., D. W. Webster. 1996. Projects and Activities Involving Oysters. Sea Grant Extension Program Site Review Briefing Document.

Meritt, Don, 1996. Sizing A Remote Setting System. *Maryland Aquafarmer*, Winter. <http://www.mdsg.umd.edu/Extension/Aquafarmer/Winter96.html#REMOTE>

Meritt, Donald. W. 1997. Adventures in Low-salinity Oyster Culture: Strategies for coping with too much Fresh Water. Proceedings of 17th Milford Aquaculture Seminar. Milford, CT. Feb 1997.

Baptist, Garry and Don Meritt, 1997. Preparation and use of algal paste for shellfish hatchery operation. Proceedings of the forty-ninth annual Interstate Seafood Seminar. November 1997, Ocean City, Maryland.

Goldsborough, William and Donald Meritt. 1998. Oyster Gardening.. UM-SG-MAP-98-02. <http://www.mdsg.umd.edu/oysters/garden/>

Webster, Don and Don Meritt. 1998. The Oyster Alliance: Aquaculture for the Environment, *Maryland Aquafarmer*, Summer.

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Summer98.html#1>

Webster, Don and Don Meritt. 1998. Broodstock Management for Shellfish Hatcheries, *Maryland Aquafarmer*, Summer.

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Summer98.html#3>

Goldsborough, William and Donald Meritt. 1999. Oyster Gardening for Restoration and Education. UM-SG-SGEP-99-04. 8 pp.

<http://www.mdsg.umd.edu/oysters/garden>/<http://www.mdsg.umd.edu/oysters/garden/>

Donald W. Meritt, 1998. Oyster Hatchery Expansion, *Maryland Aquafarmer*, Fall.

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Fall98.html#7>

Webster, Don and Don Meritt, 1999. Citizen's Oyster Forum, *Maryland Aquafarmer*, Spring.

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Spring99.html#1>

Meritt, Don and Don Webster, 1999. Hard Clam Potential for Maryland. *Maryland Aquafarmer*, Winter. <http://www.mdsg.umd.edu/Extension/Aquafarmer/Winter99.html#3>

Webster, Don and Don Meritt, 1999. Aquaculture Down Under. *Maryland Aquafarmer*, Summer. <http://www.mdsg.umd.edu/Extension/Aquafarmer/Summer99.html#2>

Meritt, Donald W. and W. Goldsborough. 1999. Oyster Gardening for restoration and Education. A publication of the Oyster Alliance.

Meritt, D. W. 1999. Oyster Hatcheries in Maryland. *Maryland Aquafarmer*, Fall, 1999. _

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Fall99.html#1>

Meritt, Don. 2000. Oyster Production at the Horn Point Laboratory, 1994-2000. *Maryland Aquafarmer*, Fall 2000. <http://www.mdsg.umd.edu/Extension/Aquafarmer/Fall00.html#2>

Meritt, Don and Merrill Leffler. 2000. Oyster Restoration in the Chesapeake Bay: *Looking Back, Looking Forward*. *Maryland Aquafarmer*, Fall, 2000.

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Fall00.html#1>

Webster, Don and Don Meritt. 2000. Keeping an Eye on Clam Disease, An Interim Report, *Maryland Aquafarmer*, Winter.

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Winter00.html#3>

Webster, Don and Don Meritt. 2001. The Future of Oysters in Chesapeake Bay, *Different Paths to Restoration*. *Maryland Aquafarmer*. Summer.

<http://www.mdsg.umd.edu/Extension/Aquafarmer/Summer01.html#1>

Meritt, Donald W. Creating Oyster Habitat: What Makes a Good Site? *Maryland Aquafarmer*, Spring 2001.
<http://www.mdsg.umd.edu/Extension/Aquafarmer/Spring01.html#2>
<http://www.mdsg.umd.edu/Extension/Aquafarmer/Spring01.html#2>

Meritt, Don. 2001. University of Maryland's Horn Point Hatchery. *The Bay Restorer*. Winter 2001. p.4.

Meritt, Don, and Merrill Leffler. 2002. Non-native Species The Need for Balanced Evaluation. *Maryland Aquafarmer*, Spring 2001.
<http://www.mdsg.umd.edu/Extension/Aquafarmer/Spring02.html#1>

B. PEER REVIEWED PUBLICATIONS:

1. Books, Chapters in Books, and Other Significant Publications

Pomponi, S. and D. Meritt. 1985. Life History and Boring Rates of the Low-Salinity Boring Sponge *Cliona truitti* in the Upper Chesapeake Bay. UM-SG-TSN-85-03. 4 pp.

Meritt, D. W. 1996. Double-crested Cormorant *Phalacrocorax auritus*. (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburgh Press.

Meritt, D. W. 1996. Canada Goose *Branta canadensis* . (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. Wood Duck *Aix sponsa*. (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. American Black Duck *Anas rubirpes*. (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. Mallard *Anas platyrhynchos* . (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. Blue-winged Teal *Anas discors*. (species account) in: Atlas of the

Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. Northern Shoveler Anas clypeta. (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. Gadwall Anas strepera. (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. Hooded Merganser Mergus cucullatus . (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Meritt, D. W. 1996. American Coot Fulica americana. (species account) in: Atlas of the Breeding Birds of Maryland and the District of Columbia. Chandler S. Robbins, Senior Editor, Erik A. T. Blom, Project Coordinator. University of Pittsburg Press.

Zhihua, Kuang, Laura McConnell, Alba Torrents, Donald Meritt, and Stephanie Tobash. 2003. Atmospheric Deposition of Pesticides to an Agricultural Watershed of the Chesapeake Bay. *Journal of Environmental Quality* 32: 1577-1582.

C. A. Milbury, D. W. Meritt, R. I. E. Newell and P. M. Gaffney. 2004 Mitochondrial DNA markers allow monitoring of oyster stock enhancement in the Chesapeake Bay. *Marine Biology*. DOI: 10.1007/s00227-004-1312-z

2. VIDEO AND TELEVISION PRODUCTIONS:

Maryland Oyster Recovery Plan: Segment on Outdoors Maryland television program. Broadcast during 1996.

Islands of the Chesapeake Bay: Segment of Outdoors Maryland television program. Broadcast several times from 1992 - 2004.

Maryland's Owls: Segment of Outdoors Maryland television program. Broadcast several times from 1991 - 2004.

Oyster culture in Maryland: Segment of Outdoors Maryland television program. Broadcast

several times from 1990 - 2004.

Common Ground: Video produced by Chesapeake Bay Foundation. Assisted with footage and interview 1998-99.

Oyster Recovery Efforts in Chesapeake Bay: CNN interview, summer 2000.

C. CONTRACT AND GRANTS:

1. Awarded and Expired:

Assessment of disease resistance and growth performance in distinct populations of the American oyster, Crassostrea virginica. United States Department of Commerce, NOAA. January 1991-June 1994. \$42,662. (8% time).

A comprehensive investigation of larval development and mortality in the eastern oyster. Northeastern Regional Aquaculture Center. April 1992-October 1994. \$198,698. (Co-investigator with Scott Gallager, Roxanna Smolowitz, Gary Wikfors, and Dennis Walsh).

Improving oyster seed production in Maryland: Determination of algal diets and triacylglyceride levels in oyster larvae which maximize metamorphic survival. United States Department of Agriculture Cooperative Grants Program, University of Maryland Agricultural Experiment Station. July 1994-June 1995. \$22,000. (Co-investigator with Ken Paynter).

Evaluation of American Oyster Stocks for Resource Rehabilitation: Disease Resistance and Genetics. United States Department of Commerce, NOAA. December 1994-November 1996. \$47,360. (Co-investigator with Ken Paynter and Pat Gaffney, 8% time).

Using oysters to enhance profitability in hybrid striped bass. Maryland Industrial Partnerships. July 1994-July 1997. \$63,463. (Co-investigator with HyRock Aquaculture Farm, Donald Webster, Reginal Harrell, Garry Baptist, and Kennedy Paynter, 4% time).

Evaluation of American Oyster Stocks for Resource Rehabilitation: Disease resistance and

Genetics. Sea Grant Oyster Disease Research Program. December 1994-November 1997. \$92,676. (Co-investigator with Kennedy Paynter and Patrick Gaffney, 4% time).

Cooperative Regional Oyster Selective Breeding Project (CROSBREED). Maryland Sea Grant. September 1995-December 1997. \$33,766. (Co-investigator with Ken Paynter, 4% time).

Production of disease-free oysters for use in oyster recovery area research. Maryland Sea Grant. September 1995-July 1997. \$100,749. (Co-investigator with Kennedy Paynter, 8% time).

Brood stock management of disease resistant stocks in the hatchery. Sea Grant Oyster Disease Research Program. September 1997-August 1998. \$31,976. (Co-investigator with Stan Allen and Mark Luckenback).

Production of hatchery reared oyster spat for use in habitat rehabilitation and repletion efforts. Maryland Department of Natural Resources. July 1998 - June 1999. \$177,782. (Principal Investigator, 8% time).

Pesticide Residues in oyster tissues of the Chesapeake Bay. United States Department of Agriculture. September 1999-August 2000. \$5,091. (Principal Investigator)

Collection of Rain and Air Samples for Pesticide Analysis from a site at HPL. United States Department of Agriculture. February 2000-January 2001. \$ 9,419 (Principal Investigator)

Cooperative Program for Evaluation of Three Strains of the Eastern Oyster in Chesapeake Bay. Chesapeake Appreciation, Inc. July 1999-December 2001. \$39,612.

Oyster Recovery Project, Project Management. Chesapeake Appreciation, Inc. February 2000-February 2001. \$4,000.

Production of Seed Oysters for Strain Evaluation in Chesapeake Bay. Chesapeake Appreciation, Inc. (NOAA) October 1999-June 2001. \$ 64,000. (Principal Investigator)

Severn River Sanctuary Project. Chesapeake Appreciation, Inc. June 1999-September 2001.

\$5,000 (Principal Investigator)

Eastern Bay Sanctuary Project. Chesapeake Appreciation, Inc. May 2000-September 2001. \$5,000. (Principal Investigator)

Collection of Rain and Air Samples for Pesticide Analysis from a site at HPL. United States Department of Agriculture. March 2001-December 2001. \$ 5,976.40 (Principal Investigator)

Oyster Restoration in Chesapeake Bay. Chesapeake Appreciation Inc. February 2001-December 2001. \$56,000. (Principal Investigator)

Adaption of Hard Clam Culture Techniques to Maryland's Seaside Bays. Maryland Industrial Partnership Program. August 1999-December 2002. \$80,981. (Principal Investigator).

2001-2002 Chesapeake Bay Restoration Activities. Department of Commerce, NOAA (thru Chesapeake Appreciation Inc). June 2001-December 2002. \$45,000. (Principal Investigator)

Production of oysters for restoration in the Magothy and Nanticoke Rivers. Chesapeake Bay Trust thru Maryland Oyster Recovery Partnership. April 2001- December 2002. \$7,000.

2001-2002 Chesapeake Bay Restoration Activities ORP/CBF Joint Project. ORP/CBF thru Chesapeake Appreciation, Inc. June 2001-December 2002. \$57,400. (Principal Investigator).

Oyster Recovery Partnership. National Fish and Wildlife Foundation (through Chesapeake Appreciation, Inc.). April 2001-December 2002. \$3,000. (Principal Investigator).

Magothy and Nanticoke River Sanctuary Projects. Chesapeake Bay Trust (through Chesapeake Appreciation, Inc.). April 2001-December 2002. \$7,000. (Principal Investigator).

Production of oysters for restoration. Maryland Oyster Recovery Partnership. April 2001-December 2002. \$3,000.

Upgrade for Setting System and Production of spat for restoration activities. Maryland Oyster Recovery Partnership/Chesapeake Bay Foundation. June 2001-December 2002. \$25,000

Oyster Display Tank. NOAA (through Maryland Sea Grant). February 2002-June 2002. \$1,500.
(Principal Investigator)

Cooperative Regional Oyster Selective Breeding (CROSBreed) Project: Comprehensive Strategy for Genetic Rehabilitation and Conservation of Oysters. NOAA Oyster Disease Research Program. Co. P. I. *with* Standish K. Allen, Jr., Kimberly S. Reece, Eugene Burreson, Mark Luckenbach, Mark Camara . Virginia Institute of Marine Science, College of William and Mary. Gregory A. DeBrosse, Ximing Guo. Haskin Shellfish Research Laboratory, Rutgers University. Matt Hare, Kennedy Paynter, Don Meritt University of Maryland. Patrick M. Gaffney. College of Marine Studies, University of Delaware. October 2001- September 2003. \$410,077.

Lipid Enrichment of Eastern Oyster Broodstock and Larvae for Increased Production. Northeast Regional Aquaculture Center thru Cornell Cooperative Extension. February 2002-March 2003. Co. P.I. with K. Paynter, G. Rivara. \$39,150.

AWARDED AND ACTIVE:

Evaluation of Gemetogenesis and Spawning Cues for diploid *Crassostrea ariakensis* for Estimation of Environmental Risk. Maryland Department of Natural Resources. February 2004-March 2005. \$82,047 (Co-Principal Investigator with Stan Allen)

MOU with Maryland Department of Natural Resources for Production of Spat. March 2004 – December 2008. 2004 funding level \$540,000.

Chesapeake Bay Restoration Activities-Oyster Recovery Program. Department of Commerce, NOAA. (Thru Chesapeake Appreciation, Inc. various funding sources). Current ending date August 2004. \$190,000. (Principal Investigator).

Quantifying the Magnitude of Nitrogen and Phosphorus Removal Associated with Restoration of Oysters in Chesapeake Bay. Maryland Sea Grant. Co P. I. With R. Newell (P.I.) and J. Cornwell. February 2002-January 2004. \$114,088.

Chesapeake Bay Restoration Activities-Oyster Recovery Partnership Program. Maryland Department of Natural Resources/Maryland Environmental Services, (various projects).

\$247,499 (Principal Investigator).

Oyster Restoration Activities. Oyster Recovery Partnership (from MDNR/MES) \$281,745.
Current ending date TBD. (Principal Investigator)

Oyster Restoration Activities. Oyster Recovery Partnership (from USACOE). \$26,250. Current
ending date TBD. (Principal Investigator)

Characterizing the performance of the Suminoe Oyster, *Crassostrea ariakensis*, in Maryland
waters. June 2003-May 2005. University of Maryland Sea Grant Co P. I. With K.
Paynter, S. Allen (VIMS), \$152,510.

Genetic rehabilitation and conservation of Chesapeake oysters using disease-tolerant oyster
strains; A study of their recruitment and introgression potential. 2003-2005. University of
Maryland, Sea Grant, Oyster Disease Program. With Matt Hare, Ken Paynter. \$357,464

Evaluation of gametogenesis and spawning cues for diploid *C. ariakensis* for estimation of
environmental risk and establishment of diploid brood stock populations. (With S. Allen,
VIMS), February 2004-March 2005. \$82,047. (Principal Investigator).

D. INVITED SEMINARS AND PRESENTATIONS:

Meritt, D. W. 1995. Choptank River Oyster Recovery Area. Maryland Waterman's Association
Meeting. Ocean City, MD.

Meritt, D. W. 1995. Bird Islands of the Chesapeake Bay. Maryland Ornithological Society.
Caroline County Chapter. Denton, MD.

Meritt, D. W. 1995. Update on Oyster Restoration Activities at Horn Point. Maryland
Waterman's Association Meeting. Ocean City, MD.

Meritt, D. W. 1997. Restoring Oyster Reefs in Chesapeake Bay. Maryland SCUBA Divers
Association. Baltimore, MD.

Meritt, D. W., Baptist, G. 1997. Preparation and Use of Algal Pastes for Shellfish Hatchery

Operations. Aquaculture in the Mid-Atlantic '97. Ocean City, MD.

Meritt, D. W. and Luckenbach, M. K. 1998. Oyster Culture in the Chesapeake Bay Region. Special Session of the Annual Meeting of the World Aquaculture Society. Las Vegas, NV.

Meritt, D. W., R. M. Pfeiffer, M. J. Garreis, K. T. Paynter, and J. U. Takacs. 1999. Restoration Projects: A Chesapeake Bay Example. World Aquaculture Society, Sydney, Australia.

Meritt, D. W. 2000. There are no Warblers in Australia. Maryland Ornithological Society. Talbot County Chapter. Easton, MD.

Meritt, D. W. and Tobash, S. 2000. Production of Disease-free Oyster Seed Using Shallow Water Nurseries in the Mid-Chesapeake Bay. Fourth International Conference on Shellfish Restoration. Hilton Head, SC.

Tobash, S. and Meritt, D. W. 2000. Oyster Restoration and the University of Maryland: Interactions Between Research, Industry and the Public (Poster). Fourth International Conference on Shellfish Restoration. Hilton Head, SC.

Webster, D. W. and Meritt, D. W. 2000. Linking Public and Private Partnerships for Restoration Aquaculture in Maryland's Seaside Bays. Fourth International Conference on Shellfish Restoration. Hilton Head, SC.

Goldsborough, W.J., R.D. Brumbaugh, D. W. Meritt & J.A. Wesson. 2000. Community-Based Oyster Restoration: Case Studies From Chesapeake Bay. Fourth International Conference on Shellfish Restoration. Hilton Head, SC.

Meritt, D. W., S. Tobash, G. Baptist, and J. Takacs. 2000. Toys or Tools: Using Oyster Hatcheries in Restoration Projects. Scientific and Technical Advisory Committee, Aquatic Reef Subcommittee, Waldorf, MD.

Meritt, D. W. 2000. Summary of Horn Point Hatchery Production 1994-1999. Second Virginia Maryland Natural Resources Colloquium. Rosaryville, MD.

Meritt, D. W. 2000. Oyster Aquaculture: The Role of Hatcheries in Production and

Rehabilitation.

Maryland Sea Grant Workshop for Congressional Staffers, Baltimore, MD.

Meritt, D. W. 2000. The Role of Hatcheries in Oyster Rehabilitation. Workshop on Genetic Considerations for Hatchery-Based Restoration of Oyster Reefs. Gloucester VA.

Meritt, D. W. and J. Reese. 2001. Maryland Ornithological Society, Talbot County Chapter, 50 Years of Great Birding. Maryland Ornithological Society 56th Annual Conf. Salisbury, Md. June 2001. (Poster)

Meritt, D. W. 2001. Oyster Hatchery Activities (part of the Oyster Restoration Efforts Panel). Maryland Waterman's Trade Show and Exposition. February. Ocean City, MD.

Meritt, D. W. 2001. Creating Oyster Habitat What Makes a Good Site? 3rd Annual Maryland Citizens Oyster Forum. Annapolis, MD.

Meritt, D. W. 2001. Birdlife of Southeastern Australia. Maryland Ornithological Society, Caroline County Chapter. February 2001. Denton, MD.

Meritt, D. W., 2001. Oyster Aquaculture the Roll of Hatcheries in Production and Restoration. Presentation to HPL summer students. June 2001.

Meritt, D. W., S. Tobash, K.T. Paynter, and T. Koles. 2001. Oyster Restoration in the Chesapeake Bay: I Criteria for Site Selection. Fifth International Conference on Shellfish Restoration. Nanaimo, B.C.

Meritt, D. W., 2001. Oyster Hatcheries: Their Roll in the Chesapeake Bay. Chesapeake Bay Maritime Museum. St. Michaels, MD. November, 2001.

Meritt, D. W. 2001. Oyster Gardening in the Chesapeake: What is it? What's it good for? How do we do it? Where else can it work? University of Rhode Island, Ocean State Aquaculture Association. June 2001. Kingston, R.I.

Paynter, K.T., S. Jordan, D. Meritt. 2001. Oyster Density and Habitat Creation. Estuarine Research Federation. St. Petersburg Beach, FL. November, 2001.

- Meritt, D. W. 2002. Oyster Restoration in Chesapeake Bay: Strain Selection and Non-native Species Use. Chesapeake Bay Seafood Industries Association. Annapolis, MD. January 2002.
- Meritt, D. W. 2002. Oyster Restoration in the Face of Disease. Citizens Oyster Forum. Annapolis, MD. March 2002.
- Meritt, D. W. 2002. Oyster Restoration in Maryland. Special presentation to visiting Japanese fishery scientists. HPL . March 2002.
- Meritt, D. W. 2002. The new Aquaculture and Restoration Ecology Laboratory. Shellfish Genetics work group. Mystic, CN. April 2002.
- Meritt, D. W. 2002. The Role of Hatcheries in Oyster Restoration in Chesapeake Bay. Presentation to the Society of Environmental Journalists. HPL. October 2002.
- Paynter, K.T., T. Koles, S. Tobash, D. Meritt. Mortality of Oysters Produced in the Hatchery and Planted in the Maryland Portion of Chesapeake Bay. 6th International Conference on Shellfish Restoration. Charleston, SC. November 2002.
- Reece, K.S., S.K.Allen, Jr., E. M. Burreson., M. Luckenbach. G.A. DeBrosse, X. Guo, M. P. Hare, D. Meritt, K. Paynter, P. M. Gaffney., Cooperative Regional Oyster Selective Breeding (CROSBreed) Project: Comprehensive Strategy for Genetic Rehabilitation and Conservation of Oysters. 6th International Conference on Shellfish Restoration. Charleston, SC. November 2002.
- Hare, M., S. K. Allen, Jr., E. M.. Burreson, M.D. Camara, M. Luckenbach, K. S. Reece, G.A. DeBrosse, X..Guo, D. Meritt, K..Paynter, P.M. Gaffney., Preliminary Results on the Genetic Discrimination of Recruitment from Planted and Natural Oysters. 6th International Conference on Shellfish Restoration. Charleston, SC. November 2002.
- Holyoke, R.R. R.I.E. Newell, J.C. Conrwell, M. S. Owens, and D.W. Meritt. The Role of Microphytobenthos in Denitrification and Nutrient Fluxes at the Sediment-Water Interface in a Shallow, Tidal Tributary of Chesapeake Bay, USA. Estuarine Research Federation, Seattle, WA. September 2003.

A. Goel, L. L. McConnell, A. Torrents, Z. Kuang, D. Meritt, S. Tobash 2003. Pesticides in the atmosphere over the Choptank River Watershed, Chesapeake Bay, Proceedings Society of Environmental Toxicology and Chemistry, Abstract #PM194, p. 185

A. Goel, Z. Kuang, L. L. McConnell, A. Torrents, D. Meritt, S. Tobash 2003. Temporal trends in wet-deposition of pesticides to the Choptank River Watershed, Chesapeake Bay. Proceedings American Chemical Society, AGRO Division Abstract #80.

Restoration Aquaculture at the University of Maryland: Helping to Expand a Resource in Trouble. Donald W. Meritt, Donald W. Webster, and Stephanie M. Tobash. World Aquaculture Society, Honolulu, Hawaii. Feb. 2004. Poster.

“Oyster Restoration in Chesapeake Bay: Success and Limitations”. Kennedy T. Paynter, Don Meritt, Stephanie Tobash, and Jacob Goodwin. Restore America’s Estuaries Conference. Seattle, WA. September 2004. Poster.

Oyster Restoration in Maryland: An Integrated Approach to Address a Catastrophic Resource Decline Donald W. Meritt, Stephanie M. Tobash, Donald W. Webster, Kennedy T. Paynter, Charlie S. Frenz, Mattilde Egge. Restore America’s Estuaries Conference. Seattle, WA. September 2004. Poster.

Creating Partnerships for Restoring Coastal Bays: A Maryland Experience. Donald Webster, Donald Meritt, Steve Gordon, Restore America’s Estuaries Conference. Seattle, WA. September 2004. Poster.

Hatchery-Based Oyster Restoration in Maryland: Using Science to Solve Real World Problems. Tobash, S., and D. Meritt. 7th International Conference on Shellfish Restoration. Nov. 2004. Poster.

Performance of Triploid *Crassostrea ariakensis* and *Crassostrea virginica* growth at four sites in Chesapeake Bay. Kennedy T. Paynter, Donald W. Meritt, Standish Allen, Jacob Goodwin, Melissa Chen. 7th International Conference on Shellfish Restoration. Nov. 2004.

Managing Around Oyster Disease: *Using Hatchery-Produced Oyster Spat for Restoration Efforts*. Don Meritt, Stephanie Tobash, Clarissa Rounsaville, Melissa Radcliffe, Charles Frenz, Jake Goodwin, Melissa Chin, Ken Paynter 7th International Conference on Shellfish Restoration. Nov. 2004.

How do I tell if my Oysters have set? Methods for Determining Setting Efficiency of Hatchery-

Reared Oyster Larvae. Rounsaville, C., S .Tobash, and D. Meritt. 7th International Conference on Shellfish Restoration. Nov. 2004. Poster.

E. Symposia Organized/Chaired for Professional Meetings:

Member of Planning Committee for "Aquaculture in the Mid-Atlantic." Fredericksburg, VA. 1994.

Member of Planning Committee for "Aquaculture Expo" and "Aquaculture in the Mid-Atlantic." Washington, DC. 1995.

Member of Planning Committee for the National Aquaculture Extension Conference. Annapolis, MD, in 1996.

F. ACTIVE MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

National Shellfisheries Association

World Aquaculture Society

American Birding Association

Maryland Ornithological Society: President, Talbot County Chapter 1991-1999; Member of Board of Directors, Talbot County Chapter 1989-1999.

III. TEACHING AND TRAINING:

A. University System of Maryland Courses Taught

Course No.	Title	Institution	Semester	Enrollment	Credit Hrs.	Primary Instructor	No. Lectures
MEES 698C	Aquaculture	UMCP	Spring '94	7	3	Harrell	2
MEES 698C	Aquaculture	UMCP	Spring '96	19	3	Harrell	2

Short courses/extension workshops

Shellfish Aquaculture Techniques, Short Course organized and taught in conjunction with 2nd National Aquaculture Extension Conference in Annapolis, MD April, 1997.
<http://www.mdsg.umd.edu/extensionconf/summary.html#3>

Ecology and Aquaculture, workshop for middle school and high school teachers held at HPL. May 1999.

Master Oyster Gardeners Program, Workshop for oyster gardeners held at HPL June, 1999.

Oyster Institute: 2001. Workshop for educators. Held at HPL June 2001.

Oyster Institute: 2002. Workshop for oyster gardeners held at Chesapeake Bay Foundation, Annapolis, MD. March 2002.

Teacher Workshop: 2002. Workshop for Maryland teachers on oyster restoration. Held at HPL June 2002.

Aquaculture in Action Workshop: Workshop for Maryland Teachers on Aquaculture. Held at HPL July 2002.

B. Graduate Students Supervised: (* denotes graduates)

Coren Milbury	Ph.D. Marine Bio/BioChem	University of Delaware Graduate College of Marine Studies
Kathy Whitlow	M.S. Env. Science and Policy	George Mason University
Nicole Pavlos*	M.S. Marine Estuarine and Environmental Science	University of Maryland College Park
Donald Webster*	M.S. Extension Education	University of Maryland Eastern

Jessica Meiller*

Ph.D. Marine Estuarine and
Environmental Science

Shore

University of Maryland
Baltimore County

IV. Outreach and Service:

A. Public Service

1. Extension Presentations

1994 Bird study as a means of promoting environmental awareness in secondary school students, Chesapeake Bay Trust Teachers Workshop, Horn Point Environmental Laboratory, Cambridge.

Oyster Aquaculture in Maryland, Lecture to 6th, 7th, and 8th grade students participating in the Horn Point Laboratory, Environmental Education Program. Cambridge.

Birds of the Delaware Coastal Marshes. Port Mahon, DE.

Bird study as a means of promoting environmental awareness in secondary school students, Chesapeake Bay Trust Teachers Workshop, Horn Point Environmental Laboratory, Cambridge.

Oyster Aquaculture in Maryland, Lecture to 11th and 12th grade students participating in the Horn Point Environmental Laboratory, Environmental Education program. Cambridge.

Oyster Aquaculture in Maryland, its Practice and Promise. Denton Women's Club. Denton, MD.

1997 With J. Takacs. Adopt-A-Bag. A first-prize-winning poster presented at the National Aquaculture Extension Conference. Annapolis, MD.
<http://www.mdsg.umd.edu/extensionconf/AQ58.html>

With J. Takacs. Using oysters as an Extension teaching tool: Interactions between Research, Industry and the Public. A prize-winning poster presented at the National Aquaculture Extension Conference. Annapolis, MD.
<http://www.mdsg.umd.edu/extensionconf/AQ49.html>

With J. Takacs and G. Baptist. Using Oyster Hatcheries in Aquaculture Extension Programs. 2nd National Aquaculture Conference, short course taught at Horn Point

Laboratory, Cambridge, MD. <http://www.mdsg.umd.edu/extensionconf/AQ65.html>

1998 With S. Allen, T. Gallivan, D. Webster, and G. DeBrosse. Regional Workshops on Brood Stock Management in the Hatchery. Sponsored by the Sea Grant Oyster Disease Research Program, and the Aquaculture Genetics and Breeding Center at VIMS. Wachapreague, VA, 12 participants.
Tuckerton, NJ, 20 participants.

1999 With S. Allen, T. Gallivan, D. Webster, and G. DeBrosse. Regional Workshops on Brood Stock Management in the Hatchery. Sponsored by the Sea Grant Oyster Disease Research Program, and the Aquaculture Genetics and Breeding Center at VIMS. Riverhead, NY, 35 participants.
Dartmouth, MA, 40 participants.

2003 Production of hatchery oyster spat for use in Maryland's oyster gardening and restoration programs. Presentation to Virginia Master Gardeners. July 2003, Gloucester Point, VA..

Web-based and other creative outreach activities:

Educational/Interactive Sites: (sites where I contributed to material or design)

Oysters & the Chesapeake. <http://www.mdsg.umd.edu/oysters/>

Portfolio V: Restoring Oysters To The Chesapeake Bay.

<http://www.mdsg.umd.edu/Research/portfolios/ODRP/oyst5impact.htm>

<http://www.mdsg.umd.edu/Research/portfolios/ODRP/oyst4achiev.htm>

Oyster Gardening for Restoration & Education. <http://www.mdsg.umd.edu/oysters/garden/>

Shellfish Aquaculture & Oysters

<http://www.mdsg.umd.edu/Extension/shellfish.html>

Oyster Institute A workshop for environmental educators concerning the Eastern Oyster

http://www.mdsg.umd.edu/Extension/msgsnn/msgsnn04_1/oyster_inst.html

HPL Oyster Hatchery Home Page. <http://www.hpl.umces.edu/facilities/oysters.html>

Maryland Sea Grant Schools, Online Network News.

http://www.mdsg.umd.edu/Extension/msgsnn/msgsnn01_1/update.html

Paynter, Kennedy T. Jr. and Donald Meritt. Evaluation of American Oyster Stocks for Resource Rehabilitation: Disease Resistance and Genetics.

http://www.mdsg.umd.edu/Research/R_ODR-03.html

Paynter, Kennedy T., D. W. Meritt, S. K. Allen, Jr., X. Guo, S. E. Ford, G. DeBrosse.
Cooperative Regional Oyster Selective Breeding (CROSBreed) Project of Potential of
Selected Stocks for Restoration and Extensive Planning.
http://www.mdsg.umd.edu/Research/R_ODR-08.html

Sites that feature my work:

Chesapeake Bay Oyster Restoration: Consensus of a Meeting of Scientific Experts, Virginia
Institute of Marine Science, Wachapreague, VA. June 1999.
<http://www.vims.edu/vimsnews/CBOysRestor.pdf>

Oyster Restoration in the Chesapeake Bay Posted 3/18/99
http://thechesapeakebay.com/oyster_restoration.shtml

Alba Torrents, Laura L. McConnell. Atmospheric Deposition of Currently Used Pesticides to
an Eastern Shore Watershed. <http://water.usgs.gov/wrri/99projects/state/Maryland2.html>

SEA GRANT HELPING TO RESTORE OYSTER THROUGH HATCHERY EFFORT May
1999. http://www.seagrantnews.org/news/tips/tip_may99.html
<http://www.newswise.com/articles/1999/5/SGTIP505.SGP.html>

Paynter, Kennedy T. Evaluation of American Oyster Stocks for Resource Rehabilitation:
Disease Resistance and Genetics.
<http://www.life.umd.edu/biology/paynterlab/Project1.html>

Portfolio V: Restoring Oysters To The Chesapeake.
<http://www.mdsg.umd.edu/Research/portfolios/ODRP/oyst3manage.htm>

Synopsis of the Oyster Ecology Workshop: *Crassostrea gigas*. A Symposium Report
<http://www.mdsg.umd.edu/oysters/exotic/gigas91.html>

Breeding Disease Resistance in the Hatchery
<http://www.mdsg.umd.edu/oysters/disease/breeding/>

THE OYSTER DISEASE RESEARCH PROGRAM (ODRP)
<http://www.mdsg.umd.edu/oysters/disease/more.html>

Oyster Habitat Restoration in Severn River by Robert Pfeiffer, Executive Director Oyster
Recovery Partnership
<http://www.mdsg.umd.edu/Extension/Aquafarmer/Fall96.html#OYSTER>

Aquaculture and Restoration By Merrill Leffler

<http://www.mdsg.umd.edu/MarineNotes/Jan-Feb98/side1.html>

Planting Oysters in the Chesapeake. By Jack Greer
<http://www.mdsg.umd.edu/MarineNotes/Sep-Oct96/side2.html>

Oyster Gardening in Chesapeake Bay. By Merrill Leffler
<http://www.mdsg.umd.edu/MarineNotes/Jul-Aug99/side2.html>

Prospects for Disease-Free Seed
<http://www.mdsg.umd.edu/oysters/disease/prospects/>

Sea Grants Supports Seafood Industry. <http://www.erc.umd.edu/nl12.html>

Oyster Restoration in the Chesapeake Bay "Light at the end of the tunnel," for oysters, experts say. Posted 3/18/99. http://thechesapeakebay.com/oyster_restoration.shtml

Oyster Reefs. http://noaa.chesapeakebay.net/habitat/hab_oyster.htm

Coastal Bays receives \$10,000 for oyster restoration.
<http://www.mdcoastalbays.org/news/1-7-00.html>

Maryland plants shells for oyster habitat. Wednesday, August 29, 2001. By Environmental News Network. http://www.enn.com/news/enn-stories/2001/08/08292001/s_44793.asp

Battling Oyster Disease in the Chesapeake. M. Leffler. NOAA Research website.
http://www.oar.noaa.gov/spotlite/archive/spot_oysters.html

Media sites featuring our work:

Will the Bay Play Host to a New Breed of Oyster? By Ralph Brave. Baltimore City Paper Online, May 31-June 6, 2000. <http://www.citypaper.com/2000-05-31/mobs2.html>

Chesapeake Oysters ~ At Century's End, Last Harvest, New Hopes. By Sandra Martin Bayweekly, Issue7_11, 1999.
http://www.bayweekly.com/year99/issue7_11/lead7_11.html

Gifts-In-Kind Help Restore Patuxent River Oysters. The Academy of Natural Sciences Newsletter. Spring 2000. http://www.anserc.org/newsletter/v5n1sp00/gifts_oysters.html

An Oyster Garden Grows Neighbor of Bay Helps Revive It by Raising Water-Cleaning Mollusks. By Anita Huslin. Washington Post. Wednesday, July 19, 2000; Page B01.
<http://www.washingtonpost.com/wp-srv/WPlate/2000-07/19/1371-071900-idx.html>
<http://www.washingtonpost.com/wp-srv/WPlate/2000-07/19/1371-071900->

[idx.html](#)

http://seattletimes.nwsources.com/news/nation-world/html98/oyst04_20000804.html

Saving the Chesapeake America's largest estuary makes modest gains despite development. By Colin Woodard, The Christian Science Monitor.

<http://www.csmonitor.com/durable/2000/08/31/text/p13s1.html>

Bringing Oysters Back To Chesapeake. CBS Worldwide Inc..2000.

<http://www.cbsnews.com/now/story/0,1597,228229-412,00.shtml>

Vol 9 - Number 6, September 1999. Can Bay's oysters make a comeback? / Restoration depends on recognizing ecological as well as economical role. By Tawna Mertz.

<http://www.bayjournal.com/99-09/OYSTERS.HTM>

Oyster Institute: A workshop for environmental educators concerning the eastern oyster.

http://www.mdsg.umd.edu/Extension/msgsn/msgsn04_1/oyster_inst.html

Don Meritt: The Hatchery Connection. Chesapeake Quarterly, Vol 1. No. 3. Fall 2002.

<http://www.mdsg.umces.edu/CQ/Fall02/side3.html>

Lessons of a true disaster: fight to save northern oyster industry studied here. Bruce Richey, staff writer, Tallahassee Democrat October 27, 2002.

<http://www.tallahassee.com/mld/democrat/4378520.htm>

Shell Game: When it Comes to the Chesapeake Bay's Failing Oyster Fishery, Maryland and Virginia Make Uneasy Bedfellows. Charles Cohen. Baltimore City Paper. October 16-

22, 2002. <http://www.citypaper.com/2002-10-16/feature.html>

Oyster Restoration. In Our Ocean World: radio program broadcast worldwide by Voice of America and other media outlets. In Cooperation with NOAA. available in both text and audio form. <http://www.ouroceanworld.com/2001/archive/2001-01/text0101a/020131.htm>

Oyster Gardens (Community ocean farming may help resurrect "old" Cape Cod). Doreen Legett The Cape Codder on TOWNLONLINE.com.

http://www.townonline.com/brewster/news/local_regional/cc_newcaoygarden09192003

B. Federal/State/Local Government:

1999-Present Scientific representative, Cooperative Regional Oyster Selective Breeding Consortium (CROSBreed) with Rutgers, VIMS, UDEL, UMD.

1998-present Member, Maryland Oyster Roundtable (Scientific Committee).

1993-present Member, Maryland Oyster Roundtable.

1994-1999 Scientific representative, State of Maryland Aquaculture Advisory Committee,

- gubernatorial appointment.
- 1998-present Scientific representative, Chester River Oyster Recovery Area Committee.
- 2002 Oyster Restoration and Aquaculture in Chesapeake Bay: Developing Partnerships that Make a Difference A briefing held for Congressman Wayne Gilchrest. WREC, March 2002.
- 2002 Oyster Restoration Activities in Maryland. A briefing for the Eastern Shore delegation. Annapolis, MD. March 2002.
- 2002 Judge, Maryland Envirothon. June 2002.

C. University System of Maryland:

- 1990-1999 Diving Safety Board Member.
- 1987-1999 Fisheries Curriculum Committee Member.
- 1986-1999 University-wide Aquaculture Task Force Member.
- 1998-present MEES Graduate Faculty Member

D. UMCES and Laboratory:

- 2004-present HPL Facilities Committee Member
- 2002-2003 Boat Operations Committee Member
- 1999-present Active with Design Phase of AREL.
- 2000 Member, Extension section, Search Committee (Sea Grant Director)
- 2000 Member, Search Committee (Finfish Specialist)
- 2000 Chair, Search Committee (Algologist)
- 1995-1997 Boat Operations Committee Member.
- 1997 Tour of Horn Point Oyster Hatchery: Visit of Maryland House of Delegates Appropriations Committee, Cambridge, MD.
- 1997 Oyster restoration efforts in the Upper Choptank River: A forum organized in conjunction with Congressman Gilcrest's office, and conducted at Horn Point Lab.

E. Other Professional Service:

- 1989 - 1999 Scientific consultant to Maryland Public Television, Outdoors Maryland.