

CURRICULUM VITAE --- RALPH J. GARONO

EDUCATION:

- 1993 Ph.D., Kent State University, Aquatic Ecology
- 1986 M.S., Youngstown State University, Biology
- 1982 B.S., Kent State University, Biology; B.A., Kent State University, French

PROFESSIONAL EXPERIENCE:

- 1996-present Chief Scientist/ President, Wetland & Watershed Assessment Group, Earth Design Consultants, Inc., Corvallis, Oregon
- 1994- 1996 Oregon State University, Scientific/ Technical Coordinator, Tillamook Bay National Estuary Project, Garibaldi, Oregon
- 1993-1994 Research Scientist, Ecosystem Research & Assessment, Texas Natural Resource Conservation Commission, Austin, Texas
- 1990-1992 Assistant Professor, Kent State University, Main Campus & Geauga, Ashtabula, and East Liverpool Branch Campuses
- 1988, 1989 Ecological Analyst I, Ohio Department of Natural Resources, Division of Natural Areas & Preserves Columbus, Ohio

CURRENT JOB RESPONSIBILITIES:

- (1) leading teams of multi-disciplinary researchers in conducting rigorous observational and experimental ecological studies to address natural resource management issues;
- (2) developing programmatic research plans and budgets;
- (3) developing collaborative relationships with scientists at state, federal and academic institutions;
- (4) communicating research results and their management implications to professionals, decisions makers, and the general public in a wide range of settings;
- (5) and providing guidance to employees and student interns.

CURRENT RESEARCH TOPICS:

- (1) measuring landscape patterns in eelgrass beds and tidal marshes using high spatial resolution, hyperspectral remote sensing;
- (2) using geographic information systems to characterize wetlands and watersheds, and to develop restoration and monitoring plans;
- (3) using invertebrate assemblages as a wetland assessment tool; factors that influence the abundance and distribution of aquatic insects in wetlands;
- (4) biocontrol of invasive plants;
- (5) and examining the role that nutrients play in structuring aquatic and marine ecosystems.

AWARDS & SCHOLARSHIPS:

1991, 1992 Kent State University, Water Resource Research Institute Doctoral Fellowship
 1986 A.P.C.O. Conservation and Wildlife Club Graduate Scholarship

RECENT PROJECT MANAGEMENT:

Watershed Assessment of (1) The Luckiamute River Basin, (2) The Siuslaw River Estuary, (3) The Midcoast Region of Oregon, and (4) Rock Creek (Siletz)

Assessment Of Estuarine And Nearshore Habitats Using Hyperspectral Imagery For Threatened Salmon Stocks In The Hood Canal And Eastern Strait Of Juan De Fuca, Washington State

Periphyton Community Survey And Nutrient Limitation In The Siletz River Basin

Developing A Hierarchical, Spatially Linked Data Set Describing Estuarine Cover Types Along The Lower Columbia River

Using Invertebrates To Assess The Impact Of Purple Loosestrife Infestation In The Columbia River Estuary

Biocontrol Of Purple Loosestrife In The Lower Columbia River Estuary

Landscape Change Analysis Of The Lower Columbia River Estuary

Using Invertebrates to Assess Restoration Success in (1) Tidal Wetlands Along the Yaquina River and (2) Wet Prairie Wetlands in the West Eugene Wetlands

SERVICE:

President, PNW Chapter of the Society of Wetland Scientists

Courtesy faculty, Marine Resource Management, Oregon State University

Board of Directors, Environmental Science Institute, Western Oregon University

Large Wood Advisory Group, South Slough National Estuarine Research Reserve

Technical Advisory Team, Siuslaw Watershed Council

Technical Advisory Team, Lower Nehalem Community Trust / Alder Creek

Member of the Oregon Hydrogeomorphic Biodiversity Technical Committee

Proposal Reviewer: US EPA, New Hampshire SeaGrant, Rhode Island SeaGrant, Earthwatch Institute, CICEET, Heinz Foundation

Manuscript Reviewer: Environmental Remote Sensing

Organizer for Intel's Regional Science Fair for High School Students

Doctoral committees served on at Oregon State University: 1

Master's committees served on at Oregon State University: 4

RELEVANT PUBLICATIONS, REPORTS, PRESENTATIONS:

PUBLICATIONS

Garono, R. J., C. A. Simenstad, R. Robinson, and H. Ripley. 2004. Using High Spatial Resolution Hyperspectral Imagery to Map Intertidal Habitat Structure in Hood Canal, WA US. *Can. J. Remote Sensing* 30(1): 54-63

Garono, Ralph J., Richard L. Kiesling, James G. Kooser, Eric N. Wold, Shon S. Schooler, and David D. Bradsby. 2001. Adult Insect Assemblages as a Conservation Planning Tool. *Verh. Internat. Verein. Limnol.* 27:4032-4041.

Garono, R. J. and J. G. Kooser. 2001. The relationship between patterns in flying adult insect assemblages and vegetation structure in wetlands of Ohio and Texas. *Ohio Journal of Science* 101 (2):12-21.

Garono, R.J., R.T. Heath and S. J. Hwang. 1996. Detrended correspondence analysis of phytoplankton abundance and distribution in Sandusky Bay and Lake Erie. *Journal of Great Lakes Research.* 22(4): 818-829.

Garono, R. J. and J. G. Kooser. 1994. Ordination of wetland insect populations: evaluation of a potential mitigation monitoring tool. In *Global Wetlands: Old World and New* [W. J. Mitsch, ed.] 509-516.

Garono, R.J. and D. B. MacLean. 1988. Caddisflies (Trichoptera) of Ohio Wetlands as Indicated by Light-Trapping. *Ohio J. Science* 88 (4): 143 - 5.

IN PREPARATION

Kooser, J. G., R. J. Garono, P. Adamus, A. Cole, S. Fennessy, J. Karr, J. Kusler, P. The use of assessment indices, are we losing power as we gain speed? Symposium presented at the 25th Annual meeting of the Society of Wetland Scientists (July 2004). To be submitted to *Ecological Applications*.

Garono, R. J., S. S. Schooler, and R. Robinson. Use of GIS and Remotely Sensed Imagery to Measure the Effectiveness of Purple Loosestrife (*Lythrum salicaria*) Biocontrol in the Columbia River Estuary, U.S.A. Paper presented in the Biocontrol symposium at the 25th Annual meeting of the Society of Wetland Scientists (July 2004).

Simenstad, C. A., D. Finlayson, M. Logsdon, R. Garono, R. Robinson, A. C. Mortimer, S. Todd, C. Weller, and H. Shipman. Landscape pattern variation and forcing factors on the intertidal distribution of eelgrass

(*Zostera marina*) in Hood Canal, Washington (USA).

Schooler, S. and R. Garono. In prep. Watershed-Catchment classification with an emphasis on salmon and lamprey populations in the MidCoast region of Oregon. To be submitted to Conservation Biology.

Wickstrom, C. E. and R. J. Garono. In prep. Associative Rhizosphere Nitrogen Fixation (Acetylene Reduction) Among Plants From Ohio Peatlands.

POPULAR ARTICLES AND TECHNICAL REPORTS

Garono, R. J., B. A. Anderson, K. Harma, C. Buhl, and P. Adamus. 2004. Luckiamute / Ash Creek / American Bottom Watershed Assessment. Technical Report, Luckiamute Watershed Council. 308 p.

Garono, R., B.D. Anderson, R. Robinson, and C. Simenstad. 2003. Change in Habitat Cover Along the Lower Columbia River Estuary as Determined from Landsat TM Imagery. Lower Columbia River Estuary Partnership technical report.

Garono, R. J., R. Robinson, and C. Simenstad. 2003. Estuarine and Tidal Freshwater Habitat Cover Types Along the Lower Columbia River Estuary Determined from Landsat 7 ETM+ Imagery. Lower Columbia River Estuary Partnership technical report.

Wille, A., E. Allen, E. Gerald, K. Harma, and R. J. Garono. 2003. A Survey of the Insects in the West Eugene Wetlands, Technical Report submitted to the BLM, p. 31.

Garono, R. J., R. Robinson, and C. Simenstad. 2003. Estuarine Landcover Along the Lower Columbia River Estuary Determined from Compact Airborne Spectrographic Imager (CASI) Imagery. Lower Columbia River Estuary Partnership technical report.

Garono, R.J., K. McFall, J. Burke, and B. Sutherland. 2003. Critical Habitat on the Lower Columbia River. Geospatial Solutions, November 2003. p. 36-41.

Garono, R.J., R. Robinson, and C. Simenstad. 2002. Estuarine Habitats along the Lower Columbia River Determined from Landsat TM. Technical Report to the Lower Columbia River Estuary Partnership, Portland, OR. 21 p + Figures.

Woodruff, D., A. Borde, G. Williams, J. Southard, R. Thom, C. Simenstad, R. Garono, R. Robinson and J. Norris. 2002. Mapping of subtidal and intertidal habitat resources: Hood Canal Floating Bridge, Washington. Res. Proj. T1803, Task 46, Washington State Dept. Transportation, Olympia, WA.

Garono, R. J. and D. Bradsby. 2002. Using Adult Insects to Assess the Restoration of a Spring-Fed Wetland in Big Bend National Park, TX. Invited by Ecological Restoration, April 2002.

Garono, R. J. and D. Bradsby. 2002. Big Bend National Park Beaver Pond Vegetation Monitoring Strategy: Evaluating Potential Impact of Nutria. Technical Report to the Big Bend National History Association. 11 pp and CD-ROM.

Simenstad, C. A., R. J. Garono, R. R. Robinson, and P. A. Frost. 2002. Landscape analysis of eelgrass (*Zostera marina*) habitat structure using remote sensing: application to assessing impacts of shoreline modifications. Second Joint Meeting of the Coastal Environment Science and Technology (CEST) Panel of the United States-Japan Cooperative Program in Natural Resources (UNJR), 25-29 October 1999, Silver Spring, MD and Charleston, NC, USA.

Borde, A.B., D. L. Woodruff, C. Simenstad, R.J. Garono, and R. Robinson. 2002. Eelgrass (*Zostera Marina* L.) Habitat Mapping Using Hyperspectral Imagery And Underwater Video. Proceedings of the Environmental Research Institute of Michigan (ERIM) conference, Miami, FL.

Simenstad, C. A., D. Finlayson, M. Logsdon, R. J. Garono, and R. Robert Robinson. 2002. Natural and

Anthropogenic Factors Influencing Fine-Grain Landscape Structure of Intertidal Eelgrass (*Zostera marina*) in Hood Canal, Washington (USA). Coastal Environmental Science and Technology (CEST) Panel of the US-Japan Cooperative Program in Natural Resources (UJNR).

- Garono, R. J. and L. Brophy. 2001. MidCoast Watersheds Council: Sixth Field Watershed Assessment. Final Report to the MidCoast Watersheds Council, Newport, OR. 135 p. with Appendices.
- Apostol, D., C. Dewberry, M. Mertens, D. Brownell, R. J. Garono, and P. Agrimis. 2001. A Watershed Assessment for the Siuslaw Basin. Technical Report to the Siuslaw Basin Council, Mapleton, OR. 88 p.
- Garono, R. J. and K. McFall. 2001. Spawning Hyperspectral to Save Salmon. Geospatial Solutions (April 2001) 28-34.
- Garono, R. J., C. A. Simenstad, and R. Robinson. 2000. Using High Spatial Resolution Hyperspectral Imagery to Describe Eelgrass (*Zostera marina*) Landscape Structure in Hood Canal, WA. Proceedings of the 17th International Conference of The Coastal Society, Portland, OR USA. 582-591.
- Brophy, L. and R. J. Garono. 2000. GIS as a Tool for Watershed Assessment: Working Toward a Desktop Decision Support System. Proceedings of the 17th International Conference of the Coastal Society, Portland, OR USA. 592.
- Garono, R. J. and L. Brophy. 1999. Using A Geographic Information System (GIS) To Prioritize Monitoring And Restoration Activities In An Oregon Coastal Watershed. Proceedings of American Water Research Association.
- Simenstad, C. A., R. J. Garono, R. R. Robertson, and P. A. Frost. 1999. Landscape Analysis of Eelgrass (*Zostera marina*) Habitat Structure using Remote Sensing: Application to Assessing Impacts of Shoreline Modifications. Interim report to Point No. Point Treaty Council and UJNR-CEST.
- Garono, R. J. 1999. Adult Insects Represented in Light Trap Collections Made at the Roy E. Larsen, Sandylands Preserve (1997). Final Report to the Texas Chapter of the Nature Conservancy.
- Garono, R. J. and L. Brophy. 1999. Rock Creek (Siletz) Watershed Assessment. Technical Report, MidCoast Watershed Council. 84 pp.
- Garono, R. J. 1999. A Review of the MCWC CD-ROM Version 4.0: Use Recommendations. Technical Report, MidCoast Watershed Council. 341 p.
- Garono, R. J., J. G. Kooser, E. N. Wold, S. S. Schooler, D. D. Bradsby, R. L. Kiesling and G. M. Staff. 1997. The use of adult insect assemblages as a conservation planning tool. Final Report to the Texas Chapter of the Nature Conservancy. Grant N0. 01/20/95-01.
- Busse, K. and R. J. Garono. 1997. A time to harvest: water quality and shellfish management in Tillamook Bay. Technical Report, Tillamook Bay National Estuary Project, Garibaldi, OR.
- Stritholt, J. R., R. J. Garono and P. A. Frost. 1997. Spatial Patterns in Land Use and Water Quality in the Tillamook Bay Watershed: A GIS Mapping Project. Technical Report, Tillamook Bay National Estuary Project, Garibaldi, OR.
- Garono, R.J. and J.G. Kooser. 1996. Aquatic insects as indicators of wetland function: preliminary work at the Olentangy River Wetland Research Park. pgs. 175-178 in Mitsch, W.J. (ed). Olentangy River Wetland Research park at The Ohio State University. Annual Report 1995. School of Natural Resources, The Ohio State University. Columbus, Ohio 43210.
- Miller, J. A. and R. J. Garono. 1996. Scientific/ Technical Characterization of Tillamook Bay and its Watershed. Tillamook Bay National Estuary Project, Garibaldi, OR.
- Miller, J. A. and R. J. Garono. 1995. A summary of the Scientific/ Technical Advisory Committee's

- Biochemical Water Quality Issue Forum. Tillamook Bay National Estuary Project, Garibaldi, OR. 29 pp.
- Miller, J. A. and R. J. Garono. 1995. A summary of the Scientific/ Technical Advisory Committee's Sediment and Erosion Issue Forum. Tillamook Bay National Estuary Project, Garibaldi, OR. 42 pp.
- Miller, J. A. and R. J. Garono. 1995. A summary of the Scientific/ Technical Advisory Committee's Fish & Wildlife Issue Forum. Tillamook Bay National Estuary Project, Garibaldi, OR.
- Garono, R. J., P. Balcerzack, and J. Corkran. 1990. A Teaching Manual for Microbiology. Department of Biological Sciences, Kent State University, Kent, Ohio. 79 pp.

PRESENTATIONS

- Robinson, R., R. J. Garono and C. A. Simenstad. Use of Landsat ETM+ and Compact Airborne Spectrographic Imagery (CASI) to Map Habitat Cover Types in the Columbia River Estuary. Presented to the 25th Annual meeting of the Society of Wetland Scientists, Seattle, WA, July 2004.
- Kooser, J. G., R. J. Garono, P. Adamus, A. Cole, S. Fennessy, J. Karr, J. Kusler, P. The use of assessment indices, are we losing power as we gain speed? Presented to the 25th Annual meeting of the Society of Wetland Scientists, Seattle, WA, July 2004.
- Garono, R. J., S. S. Schooler, and R. Robinson. Use of GIS and Remotely Sensed Imagery to Measure the Effectiveness of Purple Loosestrife (*Lythrum salicaria*) Biocontrol in the Columbia River Estuary, U.S.A. Presented to the 25th Annual meeting of the Society of Wetland Scientists, Seattle, WA, July 2004.
- Robinson, R. and R. J. Garono. Change in Land Cover Along the Lower Columbia River Estuary as Determined from Landsat TM Imagery. Presented to the 25th Annual meeting of the Society of Wetland Scientists, Seattle, WA, July 2004.
- Raad, M., B. Pool, D. Stark, P. Agrimis., L. Small, M. Walker and R. Garono. Development and Validation of A GIS-Based Predictive Model For Locating Wetlands in Clark County, Washington. Presented to the 25th Annual meeting of the Society of Wetland Scientists, Seattle, WA, July 2004.
- Simenstad, C. A., D. Finlayson, M. Logsdon, R. Garono, R. Robinson, A. C. Mortimer, S. Todd, C. Weller, and H. Shipman. Landscape pattern variation and forcing factors on the intertidal distribution of eelgrass (*Zostera marina*) in Hood Canal, Washington (USA). Presented at the ECSA /ERF meetings in Ballina, Australia in June 2004.
- Woodruff, D., A. Borde, C. Simenstad, R. Garono, and J. Norris. Nearshore Habitat Mapping In Hood Canal Using Underwater Video and Hyperspectral Imaging. Presented at the Puget Sound Research Conference, Vancouver, British Columbia, 2003.
- Garono, R. J. C. Buhl, and S. S. Schooler. Assessing the Impact of Purple Loosestrife on Tidally Influenced Wetlands of the Columbia River. Society of Wetland Scientists, Portland, OR, 2003.
- Buhl, C., R. J. Garono, and S. S. Schooler. Effects of Purple Loosestrife (*Lythrum salicaria* L.) densities on invertebrate taxonomic richness and litter bag decomposition rates in the Columbia River. Society of Wetland Scientists, Portland, OR, 2003.
- Sutherland, B., R. J. Garono, R. Robinson, and C. Simenstad. Spatially-linked, hierarchical habitat mapping on the lower Columbia River using remote sensing techniques. Society of Wetland Scientists, Portland, OR, 2003.
- Garono, R. J. and J. L. Burke. Landscape Change: Mapping Historic and Contemporary Land Cover along the Columbia River estuary. American Fisheries Society, Eugene, OR, 2003.
- Woodruff, Dana, Amy Borde, Charles Simenstad, Ralph Garono, and Jim Norris. Nearshore Habitat Mapping

- In Hood Canal Using Underwater Video and Hyperspectral Imaging, Puget Sound Research Conference, Vancouver, BC, 2003.
- Allen, E., E. Gerald, and R. J. Garono. Using Insects Collected from Pitfall Traps to Assess the Restoration of a Spring Fed Wetland in Big Bend National Park, TX. Presented at the PNW Society of Wetland Scientists Meetings, Bend, OR, 2002.
- Wille, A. R. J. Garono, D. Bradsby, and E. Gerald. Using Adult Insects to Assess two Wet Prairie Restoration Sites in the West Eugene Wetlands. Presented at the PNW Society of Wetland Scientists Meetings, Bend, OR, 2003.
- Brophy, L. and R. J. Garono. Restoration and monitoring at diked tidal marsh sites and matched reference sites in the Yaquina estuary, Oregon. Presented at the PNW Society of Wetland Scientists Meetings, Bend, OR, 2002.
- Borde, A. D. Woodruff, R. Garono, Rob Robinson, C. Simenstad, J. Norris. Eelgrass Mapping in Puget Sound, Washington Using Hyperspectral Imaging And Underwater Videography. Presented at the Pacific Estuarine Research Society, Portland, OR, 2002.
- Garono, R. J., R. Robinson, C. Simenstad, and H. Ripley. Using high spatial resolution hyperspectral imagery to map intertidal habitat structure in Hood Canal (WA). Presented to the Alliance of Marine Remote Sensing, Wolfville, Nova Scotia, 2001.
- Schooler, S.S., R.J. Garono, and S. Van de Wetering. Examining land-use practices at landscape scales: using GIS and multivariate analysis to classify watersheds. Presented at Society of Wetland Scientists in Quebec City, Canada, 2000.
- Garono, R. J. Relationships between invertebrate assemblages and wetland plant community structure and composition on the Canadian tundra. Presented at Society of Wetland Scientists in Quebec City, Canada, 2000.
- Brophy, L. and R. J. Garono. GIS as a tool for watershed assessment: working toward a desktop decision support system. Presented at the Coastal Society Meetings in Portland, OR, 2000.
- Garono, R.J., C. Simenstad, R. Robinson and P. Frost. Using High Spatial Resolution Hyperspectral Imagery to Describe Eelgrass (*Zostera marina*) Landscape Structure in Hood Canal, WA. Presented at the Coastal Society Meetings in Portland, OR, 2000.
- Garono, R. J. and L. Brophy. Using a geographic information system (GIS) to prioritize monitoring and restoration activities in an Oregon coastal watershed. Presented at the American Water Resources Association, Seattle, WA, 1999.
- Garono, R. J., D. Bradsby, and R. L. Kiesling. Characterizing ecosystem integrity with adult insect assemblages in the Big Thicket. Presented at the Big Thicket Science Conference, Beaumont, TX, 1999.
- Garono, R. J., D. Bradsby and J. Kooser. Using adult insects to assess the restoration of a desert wetland in Big Bend National Park. Presented at the Society of Wetland Scientists in June in Norfolk, VA, 1999.
- Gupta, Anuradha, Ralph Garono, and Laura Brophy. Using GIS to prioritize watershed monitoring and restoration actions in the Rock Creek Watershed (upper Siletz). Presented to the Oregon Academy of Science, February 1999.
- Garono, R. J. and D. D. Bradsby. Using Adult Insects as a Wetland Assessment Tool. Presented to the Texas Academy of Science, Seguin, Texas in March 1999.
- Gray, A. and R. J. Garono. Changes in Insect Assemblages Along Old Woman Creek (Huron, OH). Society of Wetland Scientists, Anchorage, Alaska, Presented in June 1998.

- Busse, K. M. and R. J. Garono. Incorporating GIS into scientific analyses and public outreach case study: the Tillamook Bay National Estuary Project. Coastal Zone Canada, Victoria, British Columbia, Canada. Presented in Sept 1998.
- Garono, R. J. The effect of temperature, rain and moon phase on the flight behavior of insects collected along the Miami River (Tillamook, OR). Presented at the Oregon Academy of Science Meetings, Portland, OR., Feb. 1997.
- Busse, Katherine and R. J. Garono. A time to harvest: water quality and shellfish management in Tillamook Bay. Presented at the Oregon Academy of Science Meetings, Portland, OR. Feb. 1997.
- Wold, E., S. Schooler, and R. J. Garono. Characterizing wetlands using adult insect communities. Presented at the Riparian Use, Ecology and Management conference sponsored by OSU College of Agricultural Sciences, Corvallis, OR, 1997.
- Kiesling, R. L. and R. J. Garono. Landscape analysis of Texas aquatic invertebrate communities: a prerequisite for biodiversity conservation in Texas wetland nature preserves. Proceedings of the Big Thicket Science Conference, Oct. 1996.
- Kooser, J. G. and R. J. Garono. Driving factors behind wetland insect populations: the relationship between plant community structure and adult wetland insect populations. Presented at the INTECOL V International Wetlands Conference (Perth, Australia) in September 1996.
- Garono, R. J. and J. R. Stritholt. Determining Abundance and Distribution of Eelgrass (*Zostera* spp.) in Tillamook Bay Estuary, Oregon Using Multispectral Airborne Video. Ecological Society of America meetings (Providence, RI) August 1996.
- Kiesling, R. L., R. J. Garono and G. M. Staff. Local and regional patterns in wetland insect diversity: using aquatic insect communities as integrative biological indicators of community and ecosystem integrity. Ecological Society of America meetings (Providence, RI) August 1996.
- Garono, R. J. and J. G. Kooser. Five years of assessing wetland structure and function using adult insects: what have we learned? Presented at the Society of Wetland Scientists meetings (Kansas City, MO) in June 1996.
- Garono, R. J. and J. R. Stritholt. Determining Abundance and Distribution of Eelgrass (*Zostr*a spp.) in Tillamook Bay Estuary, Oregon Using Multispectral Airborne Video. Presented at the Ecological Society of America (Prov., RI) 1996.
- Garono, R. J. and L. Lackey. Bathymetric change in Tillamook Bay (1867-1995): ecological implications. Oregon Academy of Science, Eugene, OR, 1996.
- Kiesling, R. L., L. Farmer, and R. J. Garono. Development of a nonpoint source pollution potential index for the San Antonio-Nueces and Nueces-Rio Grande Coastal Basins. Abstracts of the 13th biennial meeting of the Estuarine Research Foundation, Corpus Christi, TX, 1995.
- Sigman, M. J., Miller J. A., Garono, R. J. The use of watershed analysis to address environmental degradation in a National Estuary Project. Estuarine Federation Meeting in Corpus Christi, TX, 1995.
- Garono, R.J., Backus, E. H., Miller, J. A., Sigman, M.J. The use of GIS in the Land of Cheese, Trees, and Ocean Breeze. Estuarine Federation Meeting in Corpus Christi, TX, 1995.
- Garono, R. J., Gienger, E. Using adult insects collected by light trap to evaluate salmon habitat in the Miami River, Tillamook Bay, Oregon. Estuarine Federation Meeting in Corpus Christi, TX, 1995.
- Stritholt, J. R., Garono, R. J. The role of remote sensing in ecological assessment of Tillamook Bay, Oregon. Estuarine Federation Meeting in Corpus Christi, TX, 1995.
- Kooser, J. G., R. J. Garono, B.L. Kooser and A. Gray. 1995. Patterns of vertical distribution of plants in Ohio

- wetlands. Society of Wetland Scientist Meetings in Boston, Mass., 1995.
- Gray, A., J. G. Kooser and R. J. Garono. Vegetation structure and composition of Ohio wetlands: are caddisfly assemblages related to wetland plant communities. Presented at the South Central Chapter Soc. of Wetland Scientists meetings November, 1994. Fort Worth, TX, 1994.
- Mealer, D. and R. Garono. Wetland insect communities in the playa region of the Texas panhandle. Presented at the South Central Chapter Soc. of Wetland Scientists meetings November, 1994. Fort Worth, TX, 1994.
- Thomas, S. T. and R. J. Garono. Which aquatic insect orders are most important in characterizing wetland habitats in west Texas? Presented at the South Central Chapter Soc. of Wetland Scientists meetings November, 1994. Fort Worth, TX. ****Awarded 2nd Place for Best Student Paper****
- Garono, R. J., R. L. Kiesling and G. M. Staff. Landscape analysis of Texas aquatic invertebrate communities: a prerequisite for biodiversity conservation. Presented to the Ecological Society of America, Knoxville, TN, 1994.
- Garono, R. J. and J. G. Kooser. Using aquatic insects to monitor replacement wetland success: preliminary results from Ohio. Presented to the Society of Wetland Scientists, Portland, OR, 1994.
- Garono, R. J., R. L. Kiesling and G. M. Staff. A comparison of insect assemblages from three desert wetlands. Presented to the Texas Academy of Science, Houston, TX, 1994.
- Garono, R.J. and R.T. Heath. Detrended correspondence analysis of phytoplankton: abundance and distribution in Sandusky Bay and Lake Erie. *The Ohio Journal of Science* 1993(2):49.
- Sturtevant, R., R. J. Garono, S.J. Hwang, and R. T. Heath. Phytoplankton-bacterioplankton coupling in Sandusky Bay. *The Ohio Journal of Science* 1993(2):49.
- Kooser, J.G. and R. J. Garono. A preliminary classification of Ohio wetland plant communities. *The Ohio Journal of Science* 1993(2):44.
- Kooser, J.G. and R. J. Garono. Ordination of wetland insect populations: continued evaluation of a potential mitigation monitoring tool. *The Ohio Journal of Science* 1993(2):44.
- Kooser, J. G. and R. J. Garono. Ordination of wetland insect populations: evaluation of a mitigation monitoring tool. The International Association of Ecology (INTECOL) IV International Wetlands Conference, Columbus, Ohio, 1992.
- Garono, R.J. and R.T. Heath. The importance of bacterioplankton and grazers in the phosphorus dynamics of Sandusky Bay. *Ohio Journal of Science* 1992(2):00.
- Garono, R.J. and R.T. Heath. Environmental factors underlying the abundance and distribution of phytoplankton in Sandusky Bay. IAGLR Waterloo, Ont., 1992.
- Garono, R.J. and R. T. Heath. The functional role of the Sandusky Bay coastal wetland in phosphorus bioavailability. *Ohio Journal of Science* 1991(2):74.
- Heath, R. T. and R. J. Garono. Fractionation of phytoplankton from bacterioplankton in lake water using filters and isopycnic sedimentation. *Ohio Journal of Science* 1991(2):74.
- Garono, R.J. and J. G. Kooser. Classification of Ohio wetland plant communities. *Ohio Journal of Science* 1990(2):46.
- Kooser, J. G. and R. J. Garono. Coarse filters vs. fine filters: A comparison of two approaches to finding potential natural areas. *Ohio Journal of Science* 1990(2):48.
- Garono, R.J., W.T. Rankin and J.G. Kooser. An evaluation of a new quantitative method for surveying non-

forested plant communities. Ohio Journal of Science. 1989 (2): 42.

Garono, R. J. A comparison of behavior in 14 Ohio bog and fen wetlands. Ohio Journal of Science 1987(2):47.

Garono, R.J. and D .B. MacLean. The role of relic bogs and fens in the post-glacial distribution of Ohio caddisflies (Trichoptera). Ohio Journal of Science 1986(2):55.

UNIVERSITY TEACHING EXPERIENCE:

Microbiology, Lake Erie Science, general biology, and cells and systems.

PROFESSIONAL SOCIETIES:

Society of Wetland Scientists
Alliance for Marine Remote Sensing Association
Estuarine Research Federation
Ohio Academy of Science
Oregon Academy of Science
The Ohio Lepidopterists

INVITED SPEAKER:

- 2004 Oregon Weed Conference, Corvallis, OR; Alder Creek Farm, Watershed Group; Siuslaw Watershed Council; Society of Wetland Scientists, Seattle meetings: Special Symposium; Portland State University; University of Texas
- 2003 Western Oregon University's Natural Science and Math Seminar Series; BLM: Wetland Month Celebration, Eugene, OR; Idaho State University Departmental Seminar, Pocatello, ID; AAG Regional Conference, Kalamazoo, MI; Oregon Weed Conference, Seaside, OR; Department of Entomology, Oregon State University
- 2002 OWEB Oregon Plan Workshop, Corvallis, OR
- 2000 Oregon Coastal Conservation Coalition, Newport, OR
- 1999 Linfield College, McMinnville, OR
- 1997 Earthwatch Annual Meeting, Boston, MA
- 1996 Big Thicket Science Conference, Beaumont, TX; INTECOL, Perth, Australia; American Society of Fisheries, Regional Meeting, Sun River, OR; Portland State University, Portland, OR
- 1993 U.S. Army Corps of Engineers, Vicksburg, MI

CURRENT ADDRESS AND TELEPHONE:

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