CURRICULUM VITAE
Robert F. Denno

Education:

B.S. (1967- Honors) University of California, Davis, California (Entomology)
Ph.D. (1973) University of California, Davis, California (Entomology)
Ph.D. Dissertation: "Niche Relationships and Competitive Interactions of Carrion-breeding Calliphoridae and Sarcophagidae"
Major and Minor Areas of Study: Insect Ecology, Plant Ecology, Aquatic Ecology, Biosystematics, and Zoogeography

Academic Appointments Held:

1968-72	University of California, Teaching Assistant
1973-74	Rutgers University, Assistant Research Professor (Postdoc)
1974-76	Rutgers University, Assistant Professor
1976-79	University of Maryland, Assistant Professor
1979-85	University of Maryland, Associate Professor
1985-date	University of Maryland, Full Professor

Publications:

1. Articles in Refereed Journals:

(1) Denno, R.F. 1975. Wing polymorphism in salt marsh inhabiting Fulgoroidea. *Journal of the New York Entomological Society* 83: 253-54.

(2) Denno, R.F. and W.R. Cothran. 1975. Niche relationships of a guild of necrophagous flies. *Annals of the Entomological Society of America* 68: 741-54.

(3) Denno, R.F. and W.R. Cothran. 1976. Competitive interactions and ecological strategies of Sarcophagid and Calliphorid flies inhabiting rabbit carrion. *Annals of the Entomological Society of America* 69: 109-13.

(4) Denno, R.F. 1976. Ecological significance of wing-polymorphism in Fulgoroidea which inhabit salt marshes. *Ecological Entomology* 1: 257-66.

(5) Campbell, B.C. and R.F. Denno. 1976. The effect of the mosquito larvicides temefos and chlorphyrifos on the aquatic insect community of a New Jersey salt marsh. *Environmental Entomology* 5: 477-83.

(6) Tallamy, D.W., E.J. Hansens and R.F. Denno. 1976. A comparison of malaise trapping and aerial netting for sampling a horsefly and deerfly community. *Environmental Entomology* 5: 788-92.

(7) Miller, D.R. and R.F. Denno. 1977. A new genus and species of mealybug with a consideration of morphological convergence in three arboreal species (Homoptera: Pseudococcidae). *Systematic Entomology* 2: 111-57.

(8) Denno, R.F. 1977. Comparison of the assemblages of sap-feeding insects (Homoptera-Hemiptera) inhabiting two structurally different salt marsh grasses in the genus *Spartina*. *Environmental Entomology* 6: 359-72.

(9) Denno, R.F. 1978. The optimum population strategy for planthoppers (Homoptera: Delphacidae) in stable marsh habitats. *Canadian Entomologist* 110: 135-42.

(10) Campbell, B.C. and R.F. Denno. 1978. The structure of the aquatic insect community associated with intertidal pools on a New Jersey salt marsh. *Ecological Entomology* 3: 181-87.

(11) Denno, R.F. 1978. Opening Comments (Symposium on the foraging behavior of the Hymenoptera). *Journal of the New York Entomological Society* 85: 22l.

(12) Denno, R.F. 1978. Wing dimorphism in planthoppers: An adaptive strategy in harlequin environments. *Proceedings of the Auchenorrhyncha Workshop*, Wageningen, Netherlands.

(13) Kraft, S.K. and R.F. Denno. 1979. Physical and chemical defenses of the salt marsh shrub, *Baccharis halimifolia* L. (Compositae) against insect herbivory. *Journal of the New York Entomological Society* 86: 303.

(14) Denno, R.F. and E.E. Grissell. 1979. The adaptiveness of wing- dimorphism in the salt marsh-inhabiting planthopper, *Prokelisia marginata* (Homoptera: Delphacidae). *Ecology* 60: 221-36.

(15) Raupp, M.J. and R.F. Denno. 1979. The influence of patch size on a guild of sap-feeding insects inhabiting the salt marsh grass, *Spartina patens*. *Environmental Entomology* 8: 4l2-17.

(16) Denno, R.F. 1979. The relation between habitat stability and the migration tactics of planthoppers. *Miscellaneous Publications of the Entomological Society of America* 11: 41-9.

(17) Tallamy, D.W. and R.F. Denno. 1979. Responses of sap-feeding insects (Homoptera: Hemiptera) to simplification of host plant structure. *Environmental Entomology* 8: 1021-28.

(18) Denno, R.F. 1980. Ecotope differentiation in a guild of sap-feeding insects on the salt marsh grass, *Spartina patens*. *Ecology* 61: 702-14.

(19) Denno. R.F., M.J. Raupp, D.W. Tallamy, and C.F. Reichelderfer. 1980. Migration in heterogeneous environments: Differences in habitat selection between the wing-forms of the dimorphic planthopper, *Prokelisia marginata* (Homoptera: Delphacidae). *Ecology* 61: 859-67.

(20) Denno, R.F. and M.A. Donnely. 1981. Patterns of herbivory on *Passiflora* leaf tissues and species by generalized and specialized feeding insects. *Ecological Entomology* 6: 11-16.

(21) Tallamy, D.W. and R.F. Denno. 1981. Maternal care in *Gargaphia solani* (Hemiptera: Tingidae). *Animal Behavior* 29: 771-78.

(22) Tallamy, D.W. and R.F. Denno. 1982. Life history trade-offs in *Gargaphia solani* (Hemiptera: Tingidae): The cost of reproduction. *Ecology* 63: 616-20.

(23) Kraft, S.K. and R.F. Denno. 1982. Feeding responses of adapted and nonadapted insects to the defensive properties of *Baccharis halimifolia* L. (Compositae). *Oecologia* 52: 156-63.

(24) Raupp, M.J. and R.F. Denno. 1984. The suitability of damaged willow leaves as food for the Imported Willow Leaf Beetle, *Plagiodera versicolora* Laich. (Coleoptera: Chrysomelidae). *Ecological Entomology* 9: 443-448.

(25) Denno, R.F., L.W. Douglass, and D. Jacobs. l985. Crowding and host plant nutrition: Environmental determinants of wing-form in *Prokelisia marginata*. *Ecology* 66:1588-1596.

(26) Denno, R.F. and E.S. McCloud. 1985. Predicting fecundity from body size in the planthopper, *Prokelisia marginata* (Homoptera: Delphacidae). *Environmental Entomology* 14:846-849.

(27) Denno, R.F., L.W. Douglass, and D. Jacobs. 1986. Effects of crowding and host plant nutrition on the development and body size of the wing-dimorphic planthopper, *Prokelisia marginata*. *Ecology* 67:116-123.

(28) Denno, R.F., M.E. Schauff, S.W. Wilson, and K.L. Olmstead. 1987. Practical diagnosis and natural history of two sibling salt marsh-inhabiting planthoppers in the genus *Prokelisia* (Homoptera: Delphacidae). *Proceedings of the Entomological Society of Washington* 89:687-700.

(29) Denno, R.F. 1988. Planthoppers on the move. *Natural History Magazine* 97: 40-47.

(30) Denno, R.F., K.L. Olmstead and E.S. McCloud. 1989. Reproductive cost of flight capability: A comparison of life history traits in wing dimorphic planthoppers. *Ecological Entomology* 14: 31-44.

(31) Denno, R.F., S. Larsson, and K.L. Olmstead. 1990. Host plant selection in willow-feeding leaf beetles (Coleoptera: Chrysomelidae): Role of enemy-free space and plant quality. *Ecology* 71: 24-137.

(32) Denno, R.F. and G.K. Roderick. 1990. Population Biology of Planthoppers. *Annual Review of Entomology* 35: 489-520.

(33) Döbel, H.G., R.F.Denno and J.A. Coddington. 1990. Spider community structure in an intertidal salt marsh: Differences along an elevational gradient. *Environmental Entomology* 19: 1356-1370.

(34) Krischik, V.A. and R.F. Denno. 1990. Differences in environmental response between the sexes of the dioecious shrub, *Baccharis halimifolia* (Compositae). *Oecologia* 83:176-181.

(35) Krischik, V.A. and R.F. Denno. 1990. Patterns of growth, reproduction, defense, and herbivory in the dioecious shrub, *Baccharis halimifolia* (Compositae). *Oecologia* 83: 182-190.

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(38) Dussourd, D.E. and R.F. Denno. 1991. Deactivation of plant defense: Correspondence between insect behavior and secretory canal architecture. *Ecology* 72: 1383-1396.

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(52) Olmstead, K.L., R.F. Denno, T.C. Morton, and J.T. Romeo. 1997. Influence of *Prokelisia* planthoppers on the amino acid composition and growth of *Spartina alterniflora*. *Journal of Chemical Ecology* 23: 303-321.

(53) Benrey, B. and R.F. Denno. 1997. The slow growth-high mortality hypothesis: A test using the cabbage butterfly. *Ecology* 78: 987-999.

(54) Denno, R.F. and B. Benrey. 1997. Aggregation facilitates larval growth in the neotropical nymphalid butterfly *Chlosyne janais*. *Ecological Entomology* 22: 133-141.

(55) Peterson, M.A. and R.F. Denno. 1997. The influence of intraspecific variation in dispersal strategies on the genetic structure of planthopper populations. *Evolution* 5: 1189-1206.

(56) Larsson, S., H.E. Håggström, and R.F. Denno. 1997. Preference for protected feeding sites by larvae of the willow-feeding leaf beetle *Galerucella lineola*. *Ecological Entomology* 22: 445-452.

(57) Benrey, B., R.F. Denno and L. Kaiser. 1997. The influence of plant species on attraction and host acceptance in *Cotesia glomerata* (Hymenoptera: Braconidae). *Journal of Insect Behavior* 10: 619-630.

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(61) Benrey, B., A. Callejas, L. Rios, K. Oyama, and R.F. Denno. 1998. The effects of domestication of *Brassica* and *Phaseolus* on the interaction between phytophagous insects and parasitoids. *Biological Control* 11: 130-140.

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(65) Denno, R.F., and M.A. Peterson. 2000. Caught between the devil and the deep blue sea, mobile planthoppers elude natural enemies and deteriorating host plants. *American Entomologist* 46: 95-109.

(66) Langellotto, G.A., R.F. Denno, and J.R. Ott. 2000. A trade-off between flight capability and reproduction in males of a wing-dimorphic insect. *Ecology* 81: 865-875.

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(69) Eubanks, M.D. and Robert F. Denno. 2000. Health food versus fast food: the effects of prey quality and mobility on prey selection by a generalist predator and indirect interactions among prey species. *Ecological Entomology* 25: 140-146.

(70) Denno, R.F., D.J. Hawthorne, B.L. Thorne, and C. Gratton. 2000. Reduced flight capability in British Virgin Island Populations of a wing-dimorphic insect: role of habitat isolation, persistence, and structure. *Ecological Entomology* 26: 25-36.

(71) Elser, J.J., W.F. Fagan, R.F. Denno, D.R. Dobberfuhl, A. Folarin, A.F. Huberty, S. Interlandi, S.S. Kilham, E. McCauley, K.L. Schultz, E.H. Siemann, and R.W. Sterner. 2000. Nutritional constraints in terrestrial and freshwater food webs. *Nature* 408: 578-580.

(72) Langellotto, G.A. and Denno, R.F. 2001. Benefits of dispersal in patchy environments: Mate location by males of a wing-dimorphic insect. *Ecology* 82:1870-1878.

(73) Peterson, M.A., R.F. Denno, and L. Robinson. 2001. Apparent widespread gene flow in the predominantly flightless planthopper, *Tumidagena minuta*. *Ecological Entomology* 26:629-637.

(74) Finke, D.L. and R.F. Denno. 2002. Intraguild predation diminished in complex-structured vegetation: Implications for prey suppression. *Ecology* 83:643-652.

(75) Denno, R.F., C. Gratton, M.A. Peterson, G.A. Langellotto, D.L. Finke, and A.F. Huberty. 2002. Bottom-up forces mediate natural-enemy impact in a phytophagous insect community. *Ecology* 83: 1443-1458.

(76) Fagan, W.F., E. Siemann, C. Mitter, R.F. Denno, A.F. Huberty, H.A. Woods, and J.J. Elser. 2002. Nitrogen in insects: implications for trophic complexity and species diversification. *The American Naturalist* 160: 784-802.

(77) Ferrenberg, S.M., and R.F. Denno. 2003. Competition as a factor underlying the abundance of an uncommon phytophagous insect, the salt-marsh planthopper *Delphacodes penedetecta*. *Ecological Entomology* 28: 28: 58-66.

(78) Finke, D.L. and R.F. Denno. 2003. Intraguild predation relaxes natural enemy impacts on herbivore populations. *Ecological Entomology* 28: 67-73.

(79) Denno, R.F., C. Gratton, H. Döbel, and D.L. Finke. 2003. Predation risk affects relative strength of top-down and bottom-up impacts on insect herbivores. *Ecology* 84: 1032-1044.

(80) Gratton, C. and R.F. Denno. 2003. Seasonal shift from top-down to bottom-up impact in phytophagous insect populations. *Oecologia* 134: 487-495.

(81) Denno, R.F. and W.F. Fagan. 2003. Might nitrogen limitation promote omnivory among carnivorous arthropods. *Ecology* 84: 2522-2531 (Invited Special Feature)

(82) Eubanks, M.D., J.D. Styrsky, and R.F. Denno. 2003. The evolution of omnivory in heteropteran insects. *Ecology* 84: 2549-2556. (Invited Special Feature)

(83) Gratton, C. and R.F. Denno. 2003. Inter-year carryover effects of a nutrient pulse on *Spartina* plants, herbivores, and natural enemies. *Ecology* 84: 2692-2707.

(84) Langellotto, G.A. and R.F. Denno. 2004. Responses of invertebrate natural enemies to complex-structured habitats: A meta-analytical synthesis. *Oecologia* 139: 1-10.

(85) Finke, D.L. and R.F. Denno. 2004. Predator diversity dampens trophic cascades. *Nature* 429: 407-410.

(86) Huberty, A.F. and R.F. Denno. 2004. Plant water stress and its consequences for herbivorous insects: A new synthesis. *Ecology* 85: 1383-1398.

(87) Fagan, W.F. and R.F. Denno. 2004. Stoichiometry of actual versus potential predator-prey interactions: insights into nitrogen limitation for arthropod predators. *Ecology Letters* 7: 876-883.

(88) Matsumura, M., G.M. Trafelet-Smith, C. Gratton, D.L. Finke, W.F. Fagan, and R.F. Denno. 2004. Does intraguild predation enhance predator performance? A stoichiometric perspective. *Ecology* 89: 2601-2615.

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(90) Gratton, C. and R.F. Denno. 2005. Restoration of arthropod assemblages in a *Spartina* salt marsh following the removal of the invasive plant *Phragmites australis*. *Restoration Ecology* 13: 358-372.

(91) Denno, R.F., D. Lewis, and C. Gratton. 2005. Spatial variation in the relative strength of top-down and bottom-up forces: causes and consequences for phytophagous insect populations. *Ann. Zool. Fennici* 42: 295-311.

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(96) Lynch, M.E., I. Kaplan, G.P. Dively, and R.F. Denno. 2006. Host plant-mediated competition via induced resistance: interactions between pest herbivores on potatoes. *Ecological Applications* 16: 855-864.

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(99) Huberty, A.H. and R.F. Denno. 2006. Consequences of nitrogen and phosphorus limitation for the performance of two phytophagous insects with divergent life-history strategies. *Oecologia* 149: 444-455.

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(103) Kaplan, I., R. Halitschke, A. Kessler, S. Sardanelli, and R.F. Denno. In press. Constitutive and induced defenses to herbivory in above- and belowground plant tissues. *Ecology*

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(XXX) Kaplan, I., S. Sardanelli, B.J. Rehill, and R.F. Denno. In review. Herbivore-induced metabolic sinks: the mechanistic basis for interactions among vascular parasites? *Oecologia*

(XXX) Frank, S.D., R.F. Denno, and P.M. Shrewsbury. In review. Mandibular morphology predicts trophic guild and alters feeding performance in predacious carabid beetles. *Functional Ecology*

(XXX) Frank, S.D., R.F. Denno, and P.M. Shrewsbury. In review. Strong omnivore-plant interactions affect consumer community structure and the strength of trophic cascades. *Ecology Letters*

(XXX) Denno, R.F., D.S. Gruner, and I Kaplan. In review. Potential for entomopathogenic nematodes in biological control: insights from trophic cascade theory. *Journal of Nematology* (invitational contribution)

(XXX) Wimp, G.M., D. L. Finke, S. M. Murphy, A. F. Huberty, and R. F. Denno. In prep. Direct and indirect effects of variable plant productivity on the structure and composition of a terrestrial arthropod community. *Ecology*

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2. Books and Book Chapters:

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(3) Tallamy, D.W. and R.F. Denno. 1981. Alternative life history patterns in risky environments: An example from lacebugs. Pages 129-47 *In* R.F. Denno and H. Dingle, eds. Insect Life History Patterns: Habitat and Geographic Variation. Springer-Verlag, New York.

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(5) Denno, R.F. and M.S. McClure (edited volume). 1983. Variable Plants and Herbivores in Natural and Managed Systems. Academic Press, New York. 717 p.

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(12) Denno, R.F. 1987. Herbivore population dynamics in intertidal marshlands: The role of host plant nutrition. Pages 535-547 *In* D. D. Hook, ed. The ecology and management of wetlands. Croom Helm Ltd. Publishers, Kent, England.

(13) Denno, R.F. and G.K. Roderick. 1991. Influence of patch size, vegetation texture, and host plant architecture on the diversity, abundance, and life history styles of sap-feeding herbivores. Pages 169-196 *In* S.S. Bell, E.D. McCoy and H.R. Mushinsky, eds. Habitat structure: The physical arrangement of objects in time and space. Chapman and Hall, London.

(14) Denno, R.F. 1993. Life history strategies of immigrant planthoppers. Pages 183-201 *In* K. C. Kim ed. Evolution of insect pests: Patterns of variation. John Wiley and Sons, Inc., Publications, New York.

(15) Hanks, L., and R.F. Denno. 1993. The role of demic adaptation in colonization and spread of scale insect populations. Pages 393-411 *In* K. C. Kim, ed. Evolution of insect pests: Patterns of variation. John Wiley and Sons, Inc. Publications, New York.

(16) Denno, R.F. 1993. Influence of host plant architecture on the dispersal capability of delphacid planthoppers. Pages 44-45 *In* S. Drosopoulos, P.V. Petrakis, M.F. Claridge and P.W.F. de Vrijer, eds. Proceedings 8th Auchenorrhyncha Congress, Delphi, Greece.

(17) Denno, R.F. and T.J. Perfect (edited volume). 1994. Planthoppers: Their Ecology and Management. Chapman and Hall, New York. 799 Pages

(18) Denno, R.F. and T.J. Perfect. 1994. Planthoppers as models for ecological study and effective pest management. Pages 1-4 *In* R.F. Denno and T.J. Perfect, eds. Planthoppers: Their Ecology and Management. Chapman and Hall, New York.

(19) Wilson, S., C., C. Mitter, R.F. Denno and M. Wilson. 1994. Evolutionary patterns of host plant use by delphacid planthoppers and their relatives. Pages 7-113 *In* R.F. Denno and T.J. Perfect, eds. Planthoppers: Their Ecology and Management. Chapman and Hall, New York.

(20) Cook, A. and R.F. Denno. 1994. Planthopper-Plant Interactions: Feeding behavior, plant nutrition, plant defense and host plant specialization. Pages 114-139 *In* R.F. Denno and T.J. Perfect, eds. Planthoppers: Their Ecology and Management. Chapman and Hall, New York.

(21) Denno, R.F. 1994. Influence of habitat structure on the abundance and diversity of planthoppers. Pages 140-159 *In* R.F. Denno and T.J. Perfect, eds. Planthoppers: Their Ecology and Management. Chapman and Hall, New York.

(22) Denno, R.F. 1994. Life history variation in planthoppers. Pages 163-215 *In* R.F. Denno and T.J. Perfect, eds. Planthoppers: Their Ecology and Management. Chapman and Hall, New York.

(23) Denno, R.F., J. Cheng, G.K. Roderick, and T.J. Perfect. 1994. Density-related effects on the components of fitness and population dynamics of planthoppers. Pages 257-281 *In* R.F. Denno and T.J. Perfect, eds. Planthoppers, Their Ecology and Management. Chapman and Hall, New York.

(24) Döbel, H.G. and R.F. Denno. 1994. Predator planthopper interactions. Pages 325-399 *In* R.F. Denno and T.J. Perfect, eds. Planthoppers: Their Ecology and Management. Chapman and Hall, New York.

(25) Denno, R.F. and M.A. Peterson. 1995. Density-dependent dispersal and its consequences for population dynamics. Pages 113-130 *In* N. Cappuccino and P.W. Price, eds. Population dynamics: New approaches and synthesis. Academic Press, New York.

(26) Hanks, L. M. and R.F. Denno. 1998. Dispersal and adaptive deme formation in sedentary coccoid insects. Pages 239-262. *In* S. Mopper and S. Strauss, eds. Genetic structure and local adaptation in natural insect populations: Effects of ecology, life history, and behavior. Chapman and Hall, New York.

(27) Peterson, M.A. and R.F. Denno. 1998. Life history strategies and the genetic structure of phytophagous insect populations. Pages 263-322 *In* S. Mopper and S. Strauss, eds. Genetic structure and local adaptation in natural insect populations: Effects of ecology, life history, and behavior. Chapman and Hall, New York.

(28) Denno, R.F., C. Gratton, and G.A. Langellotto. 2001. Significance of habitat persistence and dimensionality in the evolution of insect dispersal strategies. Pages 236-259 *In* I.Woiwod, D.R. Reynolds, and C. Thomas, eds. Insect movement: mechanisms and consequences. CABI Publishing, London.

(29) Denno, R.F. and M. A. Peterson. 2004. From ecosystems to molecules: cascading effects of habitat persistence on dispersal strategies and the genetic structure of populations. Pages 147-156 *In* A. Moya and E. Font, eds. Evolution, from molecules to ecosystems. Oxford University Press, London.

(30) Denno, R.F., D.L. Finke, and G.A. Langellotto. 2005. Direct and indirect effects of vegetation structure and habitat complexity on predator-prey and predator-predator interactions. Pages 211-239 *In* P. Barbosa and I. Castellanos, eds. Ecology of Predator-Prey Interactions. Oxford University Press, London, UK.

(31) Denno, R.F. and D.L. Finke. 2006. Multiple predator interactions and food-web connectance: implications for biological control. Pages 45-70 *In* J. Brodeur and G.

Boivin, eds. Trophic and guild interactions in biological control. Springer, Dordrecht, Netherlands.

(32) Denno, R.F. and I. Kaplan. 2007. Plant-mediated interactions in herbivorous insects: mechanisms, symmetry, and challenging the paradigms of competition past. Pages 19-50 *In* T. Ohgushi, T.A. Craig, and P.W. Price, eds. Ecological communities: plant mediation in indirect interaction webs. Cambridge University Press, London, UK.

(33) Denno, R.F., M.A. Peterson, Matthew R. Weaver, and D.J. Hawthorne. 2007. Life history evolution in native and introduced populations. Pages 296-310 *In* K.J. Tilmon, ed. The Evolutionary Biology of Herbivorous Insects: Specialization, Speciation and Radiation. University of California Press, Berkeley, CA, USA.

(34) Denno, R.F., and D. Lewis. In press. Predator-prey interactions. Pages xxx-xxx *In* S. Levin, ed. Princeton Guide to Ecology. Princeton University Press, Princeton, N.J.

(35) Price, P.W. and R.F. Denno. Under contract. Insect Ecology: Concepts and Applications. Cambridge University Press, Cambridge, UK. Designed to replace Price, P.W. Insect Ecology 3rd ed. Wiley, New York.

(36) Denno, R.F. Under contract. Plant-Insect Interactions (completed). Pages xxx-xxx In P.W. Price and R.F. Denno. Insect Ecology: Concepts and Applications. Cambridge University Press, Cambridge, UK.

(37) Denno, R.F. Under contract. Lateral Interactions: Competition and Facilitation. Pages xxx-xxx In P.W. Price and R.F. Denno. Insect Ecology: Concepts and Applications. Cambridge University Press, Cambridge, UK.

(38) Denno, R.F. Under contract. Predator-Prey Interactions. Pages xxx-xxx In P.W. Price and R.F. Denno. Insect Ecology: Concepts and Applications. Cambridge University Press, Cambridge, UK.

2. Special Recognitions and Achievements:

a. Honors and Awards:

Merit Academic Achievement Award in Biology, Santa Barbara City College, Santa Barbara, CA (1965)
NSF Undergraduate Research Participation and Independent Study recipient (GY-1028 and GY-2874) University of California, Davis, CA (1966-1976)
Phi Beta Kappa (1967)
Phi Kappa Phi (1967)
NSF Traineeship Recipient; University of California, Davis, CA (1967-1971)
Departmental Teaching Assistantship Award; University of California, Davis, CA (1971-72)
Award for Excellence in Research; Division of Agriculture and Life Sciences, University of Maryland (1990)
Sandoz Award for Excellence in Pest Management; Eastern Branch of the Entomological Society of America (1996)

College of Life Sciences Faculty Research Award; University of Maryland (2000)
Distinguished Scholar-Teacher Award; University of Maryland (2000-2001)

b. Invited Seminars: 142 total

c. Papers and Posters Presented at Meetings, Abstracts, Symposia Organized, and Sessions Chaired: 248 total

3. Areas of Personal Research Interest:

Life-history evolution
Ecological stoichiometry
Population dynamics and migration
Plant-herbivore interactions
Predator-prey theory
Omnivory
Competitive interactions
Multi-trophic interactions
Food-web structure and dynamics
Spatial ecology
Disturbance and conservation ecology
Wetlands ecology

4. Editorial Boards, and Reviewing Activities:

a. Editorial Boards:

Ecology and Ecological Monographs (Subject editor, June 2001-2004)
Ecological Entomology (February 1996-date)
Science Advisory Board NCEAS (April 2007-date)

C. Instruction:

1. Courses Taught:

a. University of California Davis (teaching assistant 1968-1972).

Insect Ecology
Classification of Immature Insects
Economic Entomology
Biological Control of Insect Pests
Structure and Function of Insects
Biology of Aquatic Insects
Biology of Aquatic Insects

b. Rutgers University (1973-1976).
Animal Ecology
Principles of Systematic Entomology

Fundamentals of Field Entomology
Insect Classification
Advanced Insect Taxonomy
Insects and Man (Ecology Unit)

c. University of Maryland (last 5 years)

Insect Ecology, ENTM 612 (Spring 1993, 1995, 1997, 1999; 15-20 students/semester); 2001 (40 students); 2003 (25 students), 2005 (40 students), 2007 (25 students).
Metapopulation Dynamics, ENTM 798f (Spring 1995, 12 students)
Tropical Ecology, ENTM 799 (Spring 1996, 20 students)
Principles of Entomology, ENTM 205 (Spring 1998, 1999, 2001; 2003; 20-50 students/semester)

2. Course Development:

University of Maryland

Tropical Field Ecology (Honors), ENTM 499H (Fall 1996, 5 students, Co-developed and taught with Dr. B.L. Thorne)

3. Teaching Awards, Special Recognition:

2000-2001 Distinguished Scholar-Teacher Award (University of Maryland)

4. Undergraduate Student and Teacher Advising/Supervision (University of Maryland):

Gail A. Langellotto. Understanding dispersal polymorphisms in insects. NSF-sponsored Grant Addendum (DEB-9348071, Population Biology and Physiological Ecology Program, Biotic Systems and Resources) to provide Research Experiences for Undergraduates. 1992-1993.

Mark Fox. Effects of "bottom-up", "lateral", and "top-down" forces on the structure of a phytophagous insect community. NSF-sponsored Grant Addendum (DEB-9527846, Ecological Studies, Division of Environmental Biology) to provide Research Experiences for Undergraduates. 1996, 1997, 1998.

Heather Lindsay. Effects of "bottom-up", "lateral", and "top-down" forces on the structure of a phytophagous insect community. NSF-sponsored Grant Addendum (DEB-9527846, Ecological Studies, Division of Environmental Biology) to provide Research Experiences for Undergraduates. 1997.

Maisie Miller. Consequences of habitat size on the trophic structure and predator composition of an assemblage of arthropods in a sensitive salt marsh habitat. NSF-sponsored (RTG grant) research during summers of 1999 and 2000.

Danny Lewis. Behavioral responses of salt marsh-inhabiting predators to tidal inundation: interactions with habitat complexity. Research project during summers of 1999 and 2000.

Matt Weaver. The genetic structure of planthopper populations: elucidating source populations for colonists of California and Europe. NSF, REU-funded research project for summer of 2000.

Amanda Shearin. Ecological stoichiometry of invertebrate predators. NSF, REU-funded research project for summer of 2001.

Matt Weaver. Geographic variation in the genetic structure of parasitoid populations and their planthopper hosts. Howard Hughes fellowship for summer of 2001.

Genevieve Trafelet. Ecological stoichiometry of predators. NSF RET (Research Experiences for Teachers) supported research project for summer and fall of 2002.

Ramya Ambikapathi. Stable isotope approach to examining spatial change in predator-prey dynamics. NSF, REU-funded research project for summer of 2005.

Lie`Ann T. Van-Tull. Effects of prey behavior and risk of predation on source-sink dynamics of a predator subsidy. NSF, REU-funded research project for summer of 2005.

5a. Supervision of Graduate Student Research:

Rutgers University (1975-1976)

Bruce C. Campbell. The dynamics of a New Jersey salt marsh aquatic insect community and the effect of temefos and chlorpyrifos on community structure. M.S. 1975. Currently staff scientist with USDA/ARS, Albany, CA.

Michael J. Raupp. The influence of patch size on a guild of sap-feeding insects that inhabit the salt marsh grass *Spartina patens*. M.S. 1976 (transferred to University of Maryland for Ph.D.).

Robert C. Kozub. Factors governing the spatial distribution of *Mayetiola ammophilae* Gagne (Diptera: Cecidomyiidae) on American Beachgrass. M.S. 1976 (remained at Rutgers).

James Madenjian. A comparison between macrolepidoptera caught at light traps in diverse deciduous forests and impoverished pine-oak woodlands. M.S. 1976 (remained at Rutgers).

David Robbins. The structure of the insect community associated with the introduced grass *Phragmites communis*. M.S. 1976 (remained at Rutgers).

University of Maryland (1976-date)

Douglas W. Tallamy. Reproductive strategies among the Tingidae. Ph.D. 1980. Currently Professor and Chair, Department of Entomology and Applied Ecology, University of Delaware.

Lawrence J. Pinto. Resource utilization patterns of a complex of hymenopterous parasitoids associated with Obscure Scale (*Melanaspis obscura*) on Pin Oak (*Quercus palustris*). M.S. Sept. 1980. Currently owner of Private Urban Pest Management Consultancy.

Sandra K. Kraft. Feeding responses of adapted and non-adapted insects to the defensive properties of *Baccharis halimifolia* L. (Compositae). M.S. 1980. Currently in Private Pest Management Business.

Michael J. Raupp. The spatial distribution and seasonal abundance of the Imported Willow Leaf Beetle, *Plagiodera versicolora* Laich.: The effects of plant nutrition and defense, physical factors, and activities of competitors and predators. Ph.D. 1981. Currently Professor and Past Chair, Department of Entomology, University of Maryland.

Vera A. Krischik. The role of temporal and spatial viariability in leaf nitrogen, water content, resin, and toughness in the interaction between *Trirhabda bacaridis* (Weber) (Coleoptera:

Chrysomelidae) and its host Baccharis halimifolia L. (Compositae). Ph.D. 1984. Currently Associate Professor, Department of Entomology, University of Minnesota.

Oscar Dominguez. Comparison of the effect of the timing of artificial defoliation on the vegetative growth and reproduction of the annual, *Lespedeza stipulacea* Maxim, and the perennial *Lespedez cuneata* Don, legumes. M.S. 1985. Currently director of plant protection unit, Facultad de Agronomia, Universidad de Zulia, Maracaibo, Venezuela.

Hartmut G. Döbel. The role of spiders in the regulation of salt marsh planthopper populations. M.S. 1987. (entered Ph.D. program University of Maryland).

Robert B. Trumbule. The role of light and water stressed host plants and habitat-related mortality in determining the distribution and abundance of the aszalea lace bug, *Stephanitis pyriodes*. M.S. 1988. Currently a State Entomologist with the Maryland Department of Agriculture.

Lawrence M. Hanks. Factors influencing the distribution and abundance of the White Peach Scale, *Pseudaulacaspis pentagona* (Targioni-Tozzetti) (Homoptera: Diaspididae): Host plants and natural enemies. Ph.D. 1991. Currently Associate Professor, Department of Entomology, University of Illinois.

Karen L. Olmstead. Effectiveness and cost of larval defense in tortoise beetles (Coleoptera: Chrysomelidae: Cassidinae). Ph. D. 1991. Dean, University of South Dakota, Vermillion, SD.

Betty Benrey. Host plant effects on the interaction of an insect herbivore and its larval parasitoid: The case of *Pieris rapae* (Lepidoptera: Pieridae) and *Cotesia glomeratus* (Hymenoptera: Braconidae). Ph. D. 1993. Currently Associate Research Professor, Université de Neuchâtel, Switzerland.

John E. Losey. Synergism between ground- and foliar-foraging predators of aphids in alfalfa. Ph.D 1996. Currently Associate Professor, Department of Entomology, Cornell University, Ithaca, NY.

Hartmut G. Döbel. Spider-planthopper interactions: Influence of predator aggregation, habitat structure, and temporal refuges on prey suppression. Ph.D. 1996. Currently Assistant Professor, George Washington University.

Micky D. Eubanks. The causes and consequences of omnivory in invertebrate predators. Ph.D. 1997. Currently Associate Professor, Department of Entomology, Texas A & M University

Scott Ferrenberg. Competitive interactions between rare and common herbivores: Direct and plant-mediated effects, M.S. 2002. Currently an Entomologist with the US Forest Service in California.

Gail A. Langellotto. Evolution of wing dimorphism: Cost of flight capability in male planthoppers. M.S. 1997, Ph.D. 2002. Currently Oregon State University

Andrea F. Huberty. Differential Effects of Host Plant Stress on Herbivore Guilds. M.S. 1999. PhD. 2005. Currently Biotechnologist USDA/APHIS/BRS, Riverdale, MD.

Maisie Miller. Leafhopper-induced resistance in potatoes and consequences for Colorado potato beetle performance. M.S. 2005 (co-advised with G. Dively). Currently High School Teacher, Prince Georges Co., MD.

Deborah L. Finke. Antagonistic interactions between predator species and their combined effect on prey population dynamics, M.S. 1999. Ph.D. 2005. Currently Assistant Professor, University of Missouri.

Steve Frank. Consequences of omnivory in carabid beetles for herbivore suppression in cropping systems (co-advised with P. Shrewsbury), Ph.D. 2007. Currently Postdoctoral Associate, Texas A&M University.

Ian Kaplan. Inducible plant responses linking above- and below-ground herbivory: ecological significance and underlying mechanisms. Ph.D. 2007. Currently Postdoctoral Associate, Cornell University.

Danny Lewis. Effects of physical disturbance on the strength of top-down and bottom-up control of phytophagous insect populations. Currently Ph.D. candidate.

Jessica Hines. Microbial mediation of plant-insect interactions (M.S. 2004). Aboveground-belowground food-web interactions involving detritivores. Ph.D 2008. Currently Postdoctoral Associate, Florida State University.

Rachel Goeriz. Stoichiometric perspective on omnivory in arthropods. Currently Ph.D. candidate.

Holly Martinson (BEES). Spatial variation in the structure of arthropod food-webs. Currently Ph.D. candidate (co-advised with B. Fagan).

Laura Moore. Buffer zone effects on predator-prey interactions in cropping systems. Currently M.S. candidate (co-advised with G. Dively).

5c. Summary of Student and Postdoctoral Associate Placement

Ph.D. Student Placement:

Betty Benrey, Ph.D. 1991 (Associate Research Professor, Université de Neuchâtel, Switzerland)
Hartmut Döbel, Ph.D. 1997 (Assistant Professor, George Washington Univ.)
Gail Langellotto, Ph.D. 2002 (Assistant Professor, Oregon State University)
Micky Eubanks, Ph.D. 1997 (Associate Professor, Texas A&M University)
Debbie Finke, Ph.D. 2005 (Assistant Professor, University of Missouri)
Steve Frank, Ph.D. 2007 (Postdoc, Texas A&M University)
Andrea Huberty, Ph.D. 2005 (Biotechnologist, USDA/APHIS/BRS, Riverdale, MD)
Larry Hanks, Ph.D. 1991 (Associate Professor, University of Illinois)
Ian Kaplan. Ph.D. 2007. (Postdoctoral Associate, Cornell University)
Vera Krischik, Ph.D. 1984 (Associate Professor, University of Minnesota)
John Losey, Ph.D. 1996 (Associate Professor, Cornell University)
Karen Olmstead, Ph.D. 1991 (Dean, University of S Dakota)
Mike Raupp, Ph.D. 1981 (Professor, University of Maryland)
Doug Tallamy, Ph.D. 1980 (Professor and Chair, University of Delaware)

Posdoctoral Associate Placement:

Christer Bjorkman 1994-1995 (Assistant Professor, Swedish Agricultural University, Sweden)
David Dussourd, 1985-1990 (Professor, University Central Arkansas)
Claudio Gratton, 1997-2002 (Assistant Professor, University of Wisconsin)
Rebecca Klaper, 2001. (Assistant Professor, University of Wisconsin, Milwaukee)
Shannon Murphy, 2005-2007 (Postdoctoral Associate, George Washington University)
James Ott, 1990-1993 (Associate Professor, SW Texas State University)
Merrill Peterson, 1994-1997 (Professor, W Washington University)
George Roderick, 1987-1990 (Professor, UC Berkeley)
Gina Wimp, 2004-2007 (Assistant Professor, Georgetown University)

5c. Service on Other Graduate Student Research Committees:

Rutgers University (1973-1976)
4 M.S. students (Entomology)
1 M.S. students (Zoology)
4 Ph.D. students (Entomology)

University of Maryland (1976-present)

16 M.S. students (Entomology): Borchelt, Butcher, Farrell, Hormiga, Ladner, Lepping, Mathews, Medina, Moreno, Naghad, Pereira, Peterson, Salvaggio, Schauff, Suarez, Wiegmann

8 M.S. students (Zoology/Biology): Cronin, Kearns, Krischik, Lanum, Milstead, Sommer, Vail, von Dohlen

30 Ph.D. students (Entomology): Alexander, Breisch, Byrd, Castellanos, Coll, Cooper, Desjardins, Farrell, Girón, Hardin, Height, Heitzman, Henry, Hormiga, Leddy, LeGrand, Lehwier, Mathias, Medina, Mellampalli, Monti, Quiros, Sadof, Schauff, Segarra-Carmona, Shaw, Suarez, Venables, Wiegmann, Yang

32 Ph.D. students (Zoology/Biology/BEES): Bertness, Calabrese, Cardinale, Castaldo, Coleman, DeCarvalho, Dodge, Fellers, Franklin, Fritz, Gretes (UMBC), Halverson, Henry, Jivoff, Keagy, Leigh, Lowe, Menninger, Ott, Reynolds, Richards, Rodgers, Schlichta, Siani, Stamp, Studds, Sullivan, Swan, Van Meter (UMBC), von Dohlen, Uy, Young

1 Ph.D. student (Ag. Res. Economics): Hall

Other Universities (1976-date)

1 M.S. student University of South Florida (Biology) Bachelor

1 Ph.D. student Dartmouth University (Biology) Davis

1 Ph.D. student University of Houston (Biology) Ho

Organization Memberships:

Ecological Society of America
Entomological Society of America
Fellow, Royal Entomological Society of London
Smithsonian Institution National Associate
The Society of Sigma Xi
Entomological Society of America (Member of Program Committee of the Eastern Branch of the Entomological Society of America for 1976 and 1977)
Program Chairman for the Fiftieth Anniversary Meeting of the Eastern Branch of the Entomological Society of America for 1977-78.
Entomological Society of America (Member Systematic Resources Committee 1994-1996)

International Activities:

Co-instructor for a Fundamentals course (79-3) on tropical ecology, Organization of Tropical Studies. Taught from June 11-Aug. 9, 1979 in Costa Rica, CA. Responsibilities included lecturing and the design and implementation of field ecological research with selected students from U.S. Universities. (Invitational Faculty Member).

International travel to Peru as consulting ecologist, Feb.-March 1980, for a cooperative USDA-University of Maryland biological control project. Objectives were to collect and research potential parasites and predators of the Mexican bean beetle, a severe pest in the eastern United States.

Invited instructor for a course on the "Ecology, Sampling, and Management of Insect Pest Populations" taught during October 1982 in Maracaibo, Venezuela. Sponsored by la Universidad del Zulia, Faculdad de Agronomia.

Invited visiting professor Swedish University of Agricultural Sciences, Department of Plant and Forest Protection, Uppsala, Sweden. Involvement in Research, Seminars, Faculty Interactions. Taught short course on plant-herbivore interactions. July-September 1984.

Invited visiting research professor Swedish University of Agricultural Sciences, Department of Plant and Forest Protection, Uppsala Sweden. Conducted ecological research on willow herbivores. June 15-July 15, 1985.

Invited Co-instructor for a course entitled Curso International Ecologia de los Artropodos Tropicales. Short course on tropical ecology, instruction, field research. February 5-28, 1987. Maracaibo, El Tucuco, Catatumbo, Merida, Los Llanos, Venezuela.

Collaborative research on Brown Planthopper in rice with FAO, IRRI, CICP, and the University of Maryland. Philippines, Indonesia and Malaysia. March 10- April 26, 1990.

Invitational participant in memorial symposium on "Dispersal Polymorphism of Insects: Its Adaptation and Evolution." Okayama University, Okayama, Japan. Invitational seminar series: National Institute of Sericultural and Entomological Science, Tsukuba; Mie University; Saga University. Japan, June-July 1994.

Co-instructor and co-organizer for advanced graduate-level course in Tropical Ecology (Population Ecology and Pest Management). Held at the Las Tuxlas Field Station, Veracruz, Mexico in January 4-28, 1996. In collaboration with Centro de Ecología, Universidad Nacional Autónoma de México and the Department of Plant and Forest Protection, Swedish University of Agricultural Sciences, Uppsala, Sweden.

Co-instructor and co-organizer of an honors course for Entomology undergraduates in Tropical Field Ecology. Held on Guana Island, British Virgin Islands, October 1996.

Collaborative Research Project with D.J. Hawthorne and B.L. Thorne on "The effects of insularity and dispersal capability on the genetic sub-structuring of insect populations." British Virgin Islands, October 1997, 1998, 1999, 2003.

International Predator Diversity Working Group (Christer Björkman, Paolo Casula, Deborah Finke, Georgianne Griffiths, William Snyder, Matthew Thomas, Teja Tscharntke, Andrew Wilby, Steve Wratten).