

Curriculum Vitae

Karen L. Olmstead, Ph.D.
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Education

University of Delaware	Entomology	B.S.	1981
University of Delaware	Entomology	M.S.	1984
University of Maryland	Entomology	Ph.D.	1991

Professional Experience

Salisbury University	Dean, Henson School of Science and Technology	July 2008-present
University of South Dakota	Associate Vice President for Academic Affairs and Dean of The Graduate School	July 2004-June 2008
University of South Dakota	Director, University Honors and Undergraduate Studies	July 2001-June 2004
University of South Dakota	Professor of Biology	July 2000-present.
University of South Dakota	Chair of Biology	January 1999-July 2001
University of South Dakota	Program Director, <i>Research Experiences for Undergraduates in Experimental Biology and Biometrics</i>	October 1994-2000
University of South Dakota	Associate Professor (Tenured May 1997)	August 1995-June 2000
University of South Dakota	Associate Chair of Biology	June 1993-Summer 1998
University of South Dakota	Assistant Professor of Biology	August 1991-1995
University of Maryland	Graduate Teaching Asst. (Biometrics Program)	1990-1991
University of Maryland	Graduate Research Asst. (Biometrics Program)	1989-1990
University of Maryland	Instructor	Summer 1988
University of Maryland	Graduate Research Asst. (Entomology)	1985-1989
University of Delaware	Research Associate (Entomology)	1983-1985

Professional Activities

1. Major Administrative Accomplishments (beyond routine administration of unit)

Dean, Richard A. Henson School of Science and Technology (3.5 years): *Serve as chief academic officer for the Henson School supporting undergraduate and graduate programs in the sciences and health sciences (Biology, Chemistry, Physics, Mathematics, Computer Science, Geography/Geosciences, GIS Management, Respiratory Therapy, Nursing, Applied Health Physiology, and Medical Lab Sciences). Additionally, lead a major focus for the Henson School to increase the number of STEM majors and graduates and number of science/math secondary education graduates.*

Associate Vice President for Academic Affairs and Dean of The Graduate School (4 years): *Received Bush Foundation Grant (\$450,000) for the improvement of undergraduate teaching and learning; Facilitated development of successful proposals for new doctoral programs (Computational Science and Statistics, Biomedical Engineering, Materials Chemistry; Political Science) and other graduate programs (Math MS; Bioinformatics MS (pending); Governor's Leadership Certificate; Long-Term Care Administration Certificate); Developed Graduate School Strategic Plan; Significantly increased graduate student enrollment; Developed and delivered Graduate Teaching-Assistant Orientation Program; and Initiated new information and communications structure for the Graduate School.*

Director of University Honors and Undergraduate Programs (3 years): *Facilitated a major revision of required sophomore Honors sequence and strengthened the process and expectations for Honors theses. Raised the national visibility of USD's Honors Program through active participation in the National Collegiate Honors Council (member*

Science and Math Committee) and the Upper Midwest Honors Council (SD state representative). Supported President Abbott's successful nomination for NCHC's Presidential Leadership Award (Spring 2004) and outstanding nationally competitive scholarship wins by USD students. As Director of the Interdisciplinary Education and Action (IdEA) Program, led the development and implementation of the administrative structure of the program including curriculum development and delivery, assessment, funding (including several successful external awards), staffing, and establishment of the Student Action Office. As part of IdEA's efforts to intellectually charge the campus, IdEA sponsored or co-sponsored more than thirty speakers or events including IdEA Working Day (one and one-half day event with consultants from the Association for Integrative Studies) and Journey to Democracy Dialogue on 'Curriculum Development and Campus Issues' with Carnegie Foundation Scholar Anne Colby as a featured speaker.

Chair of Biology (2.5 years): *Focused on increasing undergraduate research opportunities; strengthening faculty research programs and extramural funding; creating a sense of research culture among the graduate students; and modernizing the undergraduate curriculum. Also hired and developed start-up packages for new faculty; forged stronger relationship with Basic Biomedical Sciences Division; sought and secured funding to bring several high-caliber speakers to our campus; served on Biology Discipline Council (regental-level council); and increased Biology research and teaching infrastructure by securing funding for a cold room, laptops for teaching labs, and upgrading of biology computer lab.*

Program Director of HHMI Undergraduate Research Program and Associate Chair of Biology (5 years): *Responsible for \$1.1M budget; facilitated 60 undergraduate research projects in nine academic departments; worked with faculty at Sinte Gleska University, Nebraska Indian Community College, and Oglala Lakota College on science outreach projects; established and served as faculty advisor to USD's Chapter of the American Indian Science and Engineering Society; and facilitated the attendance of more than 40 undergraduates and high school students at several national conferences. Primary departmental contact for installation of air conditioning in Biology labs and establishment of Biology Computer Lab (both made possible through HHMI grant).*

2. Refereed Publications (*undergraduates)

- Carlisle, J.D., K.L. Olmstead, C.H. Richart, and D.L. Swanson, Accepted. Food availability, foraging behavior, and diet of autumn landbird migrants in the Boise Foothills of southwestern Idaho. *The Condor*.
- Britten, H.B., A.R. MacClure, A.M. Tyler*, A.D. Kattan*, and K.L. Olmstead. 2003. Population genetic structure of *Physonota helianthi* (Randall) (Coleoptera: Chrysomelidae) in a fragmented landscape. *Ann. Ent. Soc. Amer.* 96: 856-864.
- Mabee, P.M., K.L. Olmstead, & C.C. Cabbage. 2000. An experimental study of intraspecific variation, developmental timing and heterochrony in fishes. *Evolution* 54: 2091-2106.
- Freund, R.L. & K.L. Olmstead. 2000. The roles of vision and antennal olfaction in enemy avoidance by three predatory heteropterans. *Environmental Entomology* 29: 721-732.
- Freund, R.L. & K.L. Olmstead. 2000. The roles of vision and antennal olfaction in habitat and prey location by three predatory heteropterans. *Environmental Entomology* 29: 733-742.
- Swanson, D.L. & K.L. Olmstead. 1999. Evidence for proximate influence of winter temperature on metabolism in passerine birds. *Physiological Zoology & Biochemistry* 72: 566-575.
- Olmstead, K.L., R.F. Denno, T.C. Morton, & 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.
- Olmstead, K.L. Cassidine Defences and Natural Enemies. 1996. In, P. Jolivet, M. Cox & T. Hsiao [eds.], *Chrysomelidae Biology II*. SPB Academic Publishers, Amsterdam, The Netherlands. pp 1-19.
- Olmstead, K.L. 1994. Waste Products as Chrysomelid Defences. In, P. Jolivet, E. Petit-pierre & M. Cox [eds.], *Novel Aspects of the Biology of the Chrysomelidae*. Kluwer, Dordrecht, The Netherlands. pp. 311-318.
- Graves, B.M., C.H. Summers, & K.L. Olmstead. 1993. Sensory mediation of aggregation among postmetamorphic *Bufo cognatus*. *Journal of Herpetology* 27: 315-319.
- Olmstead, K.L. & R.F. Denno. 1993. Effectiveness of tortoise beetle (Coleoptera: Chrysomelidae) larval shields against different predator species. *Ecology* 74: 1394-1405.
- Olmstead, K.L. & R.F. Denno. 1992. Defense costs for tortoise beetles (Coleoptera: Chrysomelidae). *Ecological Entomology* 17: 237-243
- Denno, R.F., G.K. Roderick, K.L. Olmstead, & H.G. Döbel. 1991. Density-related migration in planthoppers (Homoptera: Delphacidae): a test of the habitat persistence hypothesis. *American Naturalist* 138: 1513-1541.

- Olmstead, K.L. & T.K. Wood. 1990. The effect of clutch size and ant attendance on egg guarding by *Entylia baccata* (Homoptera: Membracidae). *Psyche* 97: 111-120.
- Olmstead, K.L. & T.K. Wood. 1990. Altitudinal patterns in species richness of neotropical tree-hoppers (Homoptera: Membracidae): the role of ants. *Proceedings of the Entomological Society of Washington* 92: 552-560.
- Wood, T.K., K.L. Olmstead, & S.I. Guttman. 1990. Insect phenology mediated by host-plant water relations. *Evolution* 44: 629-636.
- Denno, R.F., S. Larsson, & K.L. Olmstead. 1990. Role of enemy-free space and plant quality in host-plant selection by willow beetles. *Ecology* 71: 124-137.
- Denno, R.F., K.L. Olmstead, & E.S. McCloud. 1989. Reproductive cost of flight capability: a comparison of life history traits in wing dimorphic planthoppers. *Ecological Entomology* 14: 31-44.
- Denno, R.F., M.E. Schauff, S.W. Wilson, & K.L. Olmstead. 1987. Practical diagnosis and natural history of two sibling salt marsh-inhabiting plant-hoppers in the genus *Prokelisia* (Homoptera: Delphacidae). *Proceedings of the Entomological Society of Washington* 89: 687-700.
- Wood, T.K. & K.L. Olmstead. 1984. Latitudinal effects on treehopper species richness (Homoptera: Membracidae). *Ecological Entomology* 9: 109-115.

3. Invited Seminars/Panels (since 2000)

- Deans and Economic Development. Panel moderator at Council of Colleges of Arts & Sciences Annual Meeting, Montréal, Québec, Canada. November, 2011.
- Next Generation Universities: The path to reinvention and transformation. Panelist at Council of Colleges of Arts & Sciences Annual Meeting, Montréal, Québec, Canada. November, 2011.
- Facilitator at MADE-CLEAR Climate Change Education Summit, September, 2011.
- The Education Challenge: Our high school and college students in a high-tech future. Invited panelist at the Community Leaders Workshop (Mid-Delmarva, hosted by the Greater Salisbury Committee Foundation), May 2009.
- Recruiting STEM Majors into Teaching/Alternative Pathways into STEM Teaching. Invited panelist at USM STEM Symposium, April 2009.
- The Ecology and Evolution of Waste-based Defense in Tortoise Beetles (Chrysomelidae: Hispinae) and other tales. Invited seminar, Department of Biology, Salisbury University, March 2009.
- Journey to Democracy at the University of South Dakota. Co-presenter with D. Dahlin at Annual Meeting of the Association of American Colleges and University. Washington, DC. January 2004.
- Ecological and evolutionary constraints on the evolution of larval defense in tortoise beetles. Invited speaker at *Populations, Species, and Phylogenies: Evolution in Insect-Plant Systems* a symposium held at the Annual Meeting of the Entomological Society of America. October, 2003. Cincinnati, OH.
- The ecology and evolution of waste-based defense in tortoise beetles (Chrysomelidae: Cassidinae). University of Delaware, Newark, DE. October 2001.
- The ecology and evolution of waste-based defenses in tortoise beetles (Chrysomelidae: Cassidinae). Southwest Texas State University, San Marcos, TX. February 2000.

4. Recent Papers and Posters Presented at Meetings (*undergraduates, since 2000)

- Creative strategies for increasing access and maintaining quality in an uncertain economic environment. Panel organizer and moderator. Panel organizer and moderator at Council of Colleges of Arts & Sciences Annual Meeting, New Orleans, Louisiana, November, 2010.
- Strategies for Productive Relationships between the College of A&S and the Graduate School. Panel organizer and moderator at Council of Colleges of Arts & Sciences Annual Meeting, Baltimore, Maryland, November, 2009.
- Challenges and Rewards of Integrating Interdisciplinary Studies and Student Action. Presented at the Annual Meeting of the Association of American Colleges and Universities, San Francisco, CA. January, 2005.
- Monitoring the success of a prairie restoration: Spirit Mound Historic Prairie. Poster presented with Rustan E. Vote and Annie Horner* at the Annual SD-NSF EPSCoR Conference. Rapid City, SD. September, 2004.
- Monitoring the success of a prairie restoration: Spirit Mound Historic Prairie. Poster presented with Rustan E. Vote and Annie Horner* at the Annual SD-NSF EPSCoR Conference. Sioux Falls, SD. August, 2004.
- Monitoring the success of a prairie restoration: Spirit Mound Historic Prairie. Poster presented with Rustan E. Vote at the North American Prairie Conference. Madison, WI. August, 2004.

Hand-held connections for first-year students. Paper presented with S. Hackemer. Annual Meeting of the National Collegiate Honors Council. Chicago, IL. November, 2003.

Arthropod and fruit availability for autumn migrants in Idaho: preliminary results. Poster presented by J.D. Carlisle and K.L. Olmstead at the Cooper Ornithological Society, Albuquerque, NM. April, 2001.

Stopover habitat distribution of autumn landbird migrants in southwestern Idaho. Paper presented by J.D. Carlisle, D.L. Swanson, and K.L. Olmstead at the Cooper Ornithological Society, Albuquerque, NM. April, 2001.

Stopover habitat distribution of autumn landbird migrants in southwestern Idaho. Paper presented by J.D. Carlisle, D.L. Swanson, and K.L. Olmstead at the South Dakota Academy of Sciences Meeting, Vermillion, SD. April, 2001.

An experimental study of intraspecific variation: developmental timing and heterochrony in fishes. Paper presented by P. Mabee and K.L. Olmstead. Evolution 2000 Meeting, Bloomington, IN. June, 2000.

5. Other Conferences Attended (since 2000)

Annual Meeting of the American Association for the Advancement of Science. Washington, DC. February, 2011.

Council of Colleges of Arts & Sciences Washington Seminar: Programs and Funding for the Arts & Sciences. Washington, DC. March, 2010.

American Association of Colleges for Teacher Education Annual Meeting, February, 2009.

Council of Colleges of Arts & Sciences Annual Meeting, November, 2008.

Council of Colleges of Arts & Sciences, New Deans Meeting, July, 2008.

South Dakota Health Care Workforce Summit, July, 2007.

Certificate of Completion of Graduate Recruitment Course, Graduate and Professional School Enrollment Management Corporation.

Council of Graduate Schools Annual Meeting, December, 2006.

Council of Graduate Schools Annual Meeting, December, 2005.

Midwest Association of Graduate Schools, March, 2005.

Upper Midwest Honors Council, Fargo, ND. April, 2004.

Annual Meeting of the National Collegiate Honors Council, Chicago, IL, October, 2003.

Upper Midwest Honors Council, Ames, IA. March, 2003.

Annual Meeting of the National Collegiate Honors Council, Salt Lake City, UT, October, 2002.

Annual Meeting of the Association for Integrative Studies, Springfield, MO. October, 2002.

North American Prairie Conference, Kirksville, MO, June, 2002.

Vista Supervisors Training Meeting, Chicago, IL. January, 2002.

SD Academy of Sciences, Vermillion, SD, April 2001. (Local Arrangements Chair).

Annual Meeting of the American Institute of Biological Sciences, Arlington, VA. March, 2002.

National Environmental Career Conference. Atlanta, GA. October, 2000.

Many SD NSF-EPSCoR Conferences.

6. Professional Organization Memberships, Certifications, and Service to the Discipline

Maryland Science Olympiad, Board Member and Eastern Shore Regional Director (2010-present)

Board Member, Chesapeake Bay Region Technical Center of Excellence (2008 to present)

Council of Colleges of Arts & Sciences Comprehensive Institution Committee (Chair, 2010; Member, 2009-present)

Planning committee and moderator for Federal Labs Consortium Workshop (January 2009)

American Association for the Advancement of Science

Association of American Colleges and Universities –Campus Representative (2002-present)

Entomological Society of America (1986-2006): North Central Branch of the ESA: Local Arrangements Committee and Publicity Chair, 1998; Chair, C.V. Riley Woodcut Committee, 1990; and reviewer for society journals.

National Collegiate Honors Council – Math and Science Committee (2003-2004, declined continuing membership given new position)

Phi Beta Kappa, Secretary/Treasurer Alpha Chapter of South Dakota 2002-2005

Upper Midwest Honors Council, SD State Representative (2003-2004)

Advisory Council Member, W.O. Farber Center for Civic Leadership, University of South Dakota (2001-2003)

Advisor, Entomology Abstracts, Cambridge Scientific Abstracts, Bethesda, MD. 1992-2006.

8. External Grants

- National Science Foundation. Bridges to SUCCESS (SU's Connections to Careers for Every STEM Student. (with T. Jones) **\$996,300**.
- STEM Grant from USM (with D. Pataniczek). 2008. **\$20,000**.
- Bush Foundation. 2006. Raising Expectations: Strategies to improve teaching and learning at The University of South Dakota. **\$450,000**.
- National Park Service. 2004. Biological Inventory for Goat Island, Missouri River. **\$40,000** (member of grant writing team – award was recalled due to NPS funding shortfall).
- Corporation for National and Community Service. 2003. Midwest Consortium for Service Learning in Higher Education. **\$1,000,000** (institutional representative and member of grant writing committee).
- Association of American Colleges & Universities and Campus Compact. 2003. Journey to Democracy: Power, Voice, and the Public Good. **\$5000** (co-author).
- Sierra Club. 2003. Biological Inventory at Spirit Mound. **\$2000** (PI)
- State of South Dakota Game, Fish, and Parks Small Wildlife Diversity Award. 2003. Biological Inventory at Spirit Mound. **\$5000** (PI)
- Howard Hughes Medical Institute. 1994. Research Experiences for Undergraduates in Experimental Biology and Biometrics. **\$1,100,000** (PI)
- State of South Dakota, Department of Game, Fish, and Parks. Project Title: Insect Survey of Austin Property. **\$1000** (PI)
- Sigma Xi, Grant in Aid of Research. 1988. Variation in the risk of predation for tortoise beetles (Coleoptera: Chrysomelidae) on their host plants. **\$500** (PI)

9. Honors and Recognition

2010 Graduate of **Leadership Maryland**

2004 Nominated by USD for **Carnegie Professor of the Year Award** (not named as a finalist)

2001 Recipient of the University of Delaware **Presidential Citation for Outstanding Achievement**, a UD award that "honors University of Delaware graduates of the last 20 years who exhibit great promise in their professional career and/or public service activities"

1997 **Professor of the Year** Award (USD Student Association).

1995 Nominated for Outstanding Student Group Advisor (USD Chapter of the American Indian Science & Engineering Society).

10. Consulting Activities

Advisor to Entomology Abstracts (1991-2007)

External Reviewer for David and Lucile Packard Foundation Grant, Nebraska Indian Community College (1995-1997)

External reviewer, Metropolitan University, Interdisciplinary Studies MA program proposal