

**BRYAN EUGENE DUTTON**  
**Curriculum Vita**

**Home Address:** 1817 Bentley Street, Monmouth, Oregon 97361; Telephone: (503) 838-0288

**Business Address:** Department of Biology, Western Oregon University, Monmouth, Oregon 97361;  
Telephone: (503) 838-8452; Email: duttonb@wou.edu

**Education:**

1995: **Ph.D. Botany** - University of Maryland, College Park, Maryland

**Dissertation:** Taxonomic revision of *Anemone* section *Sylvia* (Ranunculaceae)

**Advisor:** James L. Reveal

1985: **M.S. Biology** – University of Louisiana at Monroe, Monroe, Louisiana (*formerly* Northeast Louisiana University)

**Thesis:** A preliminary survey of the vascular flora of Cameron Parish, Louisiana

**Advisor:** R. Dale Thomas

1982: **B.S. Natural Sciences & B.S. Secondary Education** concentration Biology - Western Oregon University, Monmouth, Oregon (*formerly* Oregon College of Education)

**Basic Oregon Teaching Certificate**

**Advisors:** J. Morris Johnson and Leona Todd

**Professional Experience:**

2009- : **Western Oregon University**, Department of Biology, Monmouth, Oregon 97361 –  
Professor of Biology

2003-2009 : **Western Oregon University**, Department of Biology, Monmouth, Oregon 97361 –  
Associate Professor of Biology

1998-2003: **Western Oregon University**, Department of Biology, Monmouth, Oregon 97361 –  
Assistant Professor of Biology

1995-98: **Brooklyn Botanic Garden**, 1000 Washington Ave., Brooklyn, New York 11225-1099 -  
Research Taxonomist

1994-95: **Smithsonian Institution**, Department of Botany - Contractor, Flora of China Project

1994: **Hunterdon County Park System, New Jersey** - Summer Nature Program Leader, grades  
7 & 8

1993: **University of Maryland**, College Park, Maryland - Assistant Instructor

1992-93: **Smithsonian Institution**, Department of Botany - Editorial Assistant, Flora of China  
Project

1990-92: **The Arnold Arboretum of Harvard University**, Cambridge, Massachusetts - Research  
Editor, Flora of China Project and Mercer Fellow of the Arnold Arboretum of Harvard  
University

1987-88: **University of Maryland**, College Park, Maryland - Data Processor using DELTA  
(DEscriptive Language for TAXonomy)

1988-90: **University of Maryland**, College Park, Maryland - Research Assistant

1985-88: **University of Maryland**, College Park, Maryland - Teaching Assistant

1982-83: **Northeast Louisiana University**, Monroe, Louisiana - Teaching Assistant

1983: **Cascade School District, OR; Falls City School District, OR; Marion Co. School  
District, OR; Polk Co. School District, OR** - Substitute Teacher, grades 7-12

**Scholarly Production – Peer Reviewed Publications (28):**

Winningham, R.G., J.H. Templeton, **B.E. Dutton**, and S.H. Scheck. 2009. A Grassroots,  
Faculty-Driven Initiative to Institutionalize Undergraduate Research: The Ins and Outs of  
Cultivating Administrative Support. *CUR Quarterly* 30(1): 29-34.

**Scholarly Production – Peer Reviewed Publications (continued):**

- Boomer, S.M., K.L. Noll, G.G. Geesey, **B.E. Dutton**. 2009. Formation of Multilayered Photosynthetic Biofilms in an Alkaline Thermal Spring in Yellowstone National Park, WY, USA. *Applied and Environmental Microbiology* (ASM Press) 75: 2464-2475.
- Ehrendorfer, F., S.N. Ziman, C. König, C.S. Keener, **B.E. Dutton**, O.N. Tsarenko, E.V. Bulakh, M. Boşcaiu, F. Médail, and A. Kästner. 2009. Taxonomic revision, phylogenetics, and transcontinental distribution of *Anemone* section *Anemone* (Ranunculaceae). *Botanical Journal of the Linnean Society* 160: 312-354.
- Ziman, S.N., F. Ehrendorfer, C.S. Keener, W.T. Wang, S.L. Mosyakin, E.V. Bulakh, O.N. Tsarenko, **B.E. Dutton**, R.P. Chaudhary and Y. Kadota. 2007. Revision of *Anemone* Sect. *Himalayicae* (Ranunculaceae) with Three New Series. *Edinburgh Journal of Botany* 64: 51-99.
- Ziman, S.N., F. Ehrendorfer, Y. Kadota, C.S. Keener, O.N. Tsarenko, E. Bulakh and **B.E. Dutton**. 2006. A Taxonomic Revision of *Anemone* L. Section *Omalocarpus* DC. *sensu lato* (Ranunculaceae): part II. *Journal of Japanese Botany* 81: 1-19.
- Boomer, S.M., K.L. Shipley, **B.E. Dutton**, D.P. Lodge. 2005. A Laboratory Class Exploring Microbial Diversity and Evolution Using On-Line Databases, the Biology Workbench, and Phylogenetics Software. MicrobeLibrary Curriculum Resources. (ASM On-Line Education – Accepted/Published 17 November 2005).
- Boomer, S.M., W.M. Drury, **B.E. Dutton**, D.P. Lodge, M.S. Boschee, W.M. Kernan, 2005. The Red Layer Microbial Observatory Database: A Model for the Integration and Dissemination of Biological and Geochemical Data via the World Wide Web. Chapter Proceedings, First Biannual Workshop on Geothermal Biology and Geochemistry in Yellowstone (Thermal Biology Institute, Montana State University Press).
- Ziman, S.N., F. Ehrendorfer, Y. Kadota, C.S. Keener, O.N. Tsarenko, E. Bulakh and **B.E. Dutton**. 2005. A Taxonomic Revision of *Anemone* L. Section *Omalocarpus* DC. *sensu lato* (Ranunculaceae): Part I. *Journal of Japanese Botany* 80: 282-302.
- Ziman, S., C.S. Keener, Y. Kadota, E. Bulakh, O. Tsarenko and **B.E. Dutton**. 2004. A Taxonomic Revision of *Anemone* L. Subgenus *Anemonanthea* (DC.) Juz. *sensu lato* (Ranunculaceae) III. *Journal of Japanese Botany* 79: 281-310.
- Ziman, S., C.S. Keener, Y. Kadota, E. Bulakh, O. Tsarenko and **B.E. Dutton**. 2004. A Taxonomic Revision of *Anemone* L. Subgenus *Anemonanthea* (DC.) Juz. *sensu lato* (Ranunculaceae) II. *Journal of Japanese Botany* 79: 196-206.
- Ziman, S., C.S. Keener, Y. Kadota, E. Bulakh, O. Tsarenko and **B.E. Dutton**. 2004. A Taxonomic Revision of *Anemone* L. Subgenus *Anemonanthea* (DC.) Juz. *sensu lato* (Ranunculaceae) I. *Journal of Japanese Botany* 79: 43-71.
- Médail, F., S. Ziman, M. Boşcaiu, J. Riera, M. Lambrou, E. Vela, **B.E. Dutton**, and F. Ehrendorfer. 2002. Comparative analysis of biological and ecological differentiation of *Anemone* palmate L. (Ranunculaceae) in the western Mediterranean (France and Spain): an assessment of rarity and population persistence. *Botanical Journal of the Linnean Society* 140: 95-114.
- Ziman, S.M., E.V. Bulakh, and **B.E. Dutton**. 2002. Diagnostic significance of the flower characters, key for determination of intergeneric taxa and conspect of genus *Anemone*. *Scientific Bulletin of Uzhgorod National University, Series: Biology* 11: 21-29.
- Boomer, S.M., D.P. Lodge, and **B.E. Dutton**. 2002. Bacterial Diversity Studies Using the 16S rRNA Gene Provide a Powerful Research-Based Curriculum for Molecular Biology Laboratory. *Microbiology Education* 3: 18-25.
- Taylor, S.B., **B.E. Dutton**, and P.E. Poston. 2002. Luckiamute River Watershed, Upper Willamette Basin: An Integrated Environmental Study for K-12 Educators. *Field Guide to Geologic Processes in Cascadia: Oregon Department of Geology and Mineral Industries Special Paper* 36.

### **Scholarly Production – Peer Reviewed Publications (continued):**

- Boomer, S.M., D.P. Lodge, **B.E. Dutton**, and B. Pierson. 2002. Molecular characterization of novel Red Green Nonsulfur Bacteria from five distinct hot spring communities in Yellowstone National Park. *Applied and Environmental Microbiology* 68: 346-355.
- Wang, W.-C., S.N. Ziman, and **B.E. Dutton**. 2001. *Anemone* (Ranunculaceae) in: Wu & Raven (eds). *Flora of China. Vol. 6 (Caryophyllaceae-Lardizabalaceae)*: 307-328.
- Keener, C.S., J.L. Reveal, **B.E. Dutton**, and S. Ziman. 1999. A list of suprageneric names in Ranunculaceae (Magnoliophyta). *Taxon* 48: 497-506.
- Ziman, S., F. Ehrendorfer, C.S. Keener, **B.E. Dutton**, V. Trifonova, O. Tsarenko, E. Moldovanova, and N. Terentjeva. 1998. The *Anemone biflora* complex (Ranunculaceae) in Central and South-West Asia: its differentiation and affinities. *Thaiszia – J. Bot., Košice* 8: 57-85.
- Dutton, B.E.**, C.S. Keener, and B.A. Ford. 1997. *Anemone* in: Flora of North America Editorial Committee (ed.). *Flora of North America* 3: 139-158.
- Ziman, S., K. Sytnik, F. Ehrendorfer, C.S. Keener, **B.E. Dutton**, V. Trifonova, M. Fedoronchuk, O. Tsarenko, I. Anishchenko, and N. Terentjeva. 1997. Taxonomy and evolution of the *Anemone narcissiflora* complex (Ranunculaceae). M.G. Kholodny Institute of Botany, National Academy of Sciences of Ukraine, Kiev. 38 pp.
- Keener, C.S., E.T. Dix, and **B.E. Dutton**. 1996. The identity of *Anemone riparia* (Ranunculaceae). *Bartonia* 59: 37-47.
- Dutton, B.E.**, J.L. Reveal, C.S. Keener, K.N. Gandhi. 1995. Proposal to conserve the orthography of *Anemone narcissiflora* L. (*Anemonastrum narcissiflorum*; Ranunculaceae). *Taxon* 44: 421-422.
- Dutton, B.E.** 1995. Taxonomic revision of *Anemone* section *Sylvia* (Ranunculaceae). Ph.D. Dissertation, University of Maryland, College Park.
- Keener, C.S., and **B.E. Dutton**. 1994. A new species of *Anemone* (Ranunculaceae) from central Texas. *Sida* 16: 191-202.
- Gandhi, K.N., and **B.E. Dutton**. 1993. Palisot de Beauvois, the correct combining author of *Erianthus giganteus* (Poaceae). *Taxon* 42: 855-856.
- Reveal, J.L., C. Jarvis, F.R. Barrie, and **B.E. Dutton**. 1992. On the typification of seven names in *Anemone* (Ranunculaceae) proposed by Linnaeus. *Bartonia* 57: 28-31.
- Dutton, B.E.**, and R.D. Thomas. 1991. The vascular flora of Cameron Parish, Louisiana. *Castanea* 56(1): 1-37.

### **Scholarly Production – Non-Peer Reviewed Publications (7):**

- Winningham, R.G. and **B.E. Dutton**. 2006. *Institutionalizing Undergraduate Research and the 2006 Academic Excellence Showcase*. The WOU Center for Teaching and Learning Newsletter, Volume 1, Issue 3.
- Dutton, B.E.** 2001. *Summer Science Institute puts PT3 Funding to Immediate Use*. WOU PT3 Newsletter, Spring 2001.
- Clemants, S, K. Barringer, **B.E. Dutton**, M. Fleming, S. Glenn, and K. Gould. 1999. *New York Metropolitan Flora: The Woody Plant Workbook*. Brooklyn Botanic Garden, Brooklyn, NY.
- Dutton, B.E.** 1998. *Plant Reproduction* in: *The Brooklyn Botanic Garden Gardener's Desk Reference*. Henry Holt & Company, Inc. New York, NY.
- Dutton, B.E.**, and C.S. Keener. 1994. Three new combinations in *Anemone* (Ranunculaceae) from North America. *Phytologia* 77: 83-88.
- Dutton, B.E.**, and R.D. Thomas. 1990. The vascular flora of three wildlife refuges in Cameron Parish, Louisiana. *Phytologia* 68: 333-362.
- Thomas, R.D., and **B.E. Dutton**. 1985. *Monerma cylindrica* new to Louisiana. *Phytologia* 57: 366.

### **Scholarly Production – Posters / Meeting Abstracts (15):**

- Hidalgo, S.C., **B.E. Dutton**, R.J. Stanley, P.R. Aldrich, E.K. Dutton, and S.B. Taylor. 2012. A Geometric Morphometric Approach to Fingerprint Analysis. The 64<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Atlanta, Georgia.
- Taylor, S.B., R. Stanley, I. MacNab, and **B.E. Dutton**. 2009. Historic Land-Cover Analysis of the Luckiamute River Basin, Central Oregon Coast Range: Preliminary Results from the Earth Science Program for Undergraduate Research at Western Oregon University. Geological Society of America Fall 2009 Meeting. Portland, Oregon.
- Manning, T.F., S.M. Boomer, M.N. Parenteau, and **B.E. Dutton**. 2009. Comparison of Chloroflexi from Two Different Photosynthetic Mat Communities in Yellowstone National Park – Preliminary Metagenomics Data and Future Aims, JGI-MGM Workshop, Walnut Creek CA.
- Dutton, B.E.** and S.B. Taylor. 2009. Impact of Invasive Plants on Native Species in the mid-Willamette Valley: A Case Study in the Luckiamute River Basin, Polk County [in conjunction with *Commemorating Oregon 150 at Western Oregon University*]. Hamersly Library Exhibit, Western Oregon University.
- Boomer, S.M., G. Geesey, **B.E. Dutton**, and K.H. Noll, 2008. Photosynthetic Mat Formation Studies *in situ*, 2nd Annual Yellowstone RCN Workshop, Bozeman, MT.
- Noll, K.L., N.E. Hanson, **B.E. Dutton**, M.N. Parenteau, and S.M. Boomer. 2008. Geochemistry and Ecology of Red Mat Systems (GERMS) - A Long-Term Monitoring Project at Red Layer Microbial Observatory Sites in Yellowstone National Park, ASM General Meeting, Boston, MA
- Noll, K.L., S.B. Taylor, **B.E. Dutton**, and R. Pirot. 2007. Spatial Distribution of Invasive Plant Species in the Luckiamute Watershed, Central Oregon Coast Range: Vegetative Response to Geomorphic Processes and Disturbance Regime in the Riparian Corridor. Geological Society of America Fall 2007 Meeting, Denver, Colorado.
- Parenteau, M.N., S.M. Boomer, K.L. Noll, **B.E. Dutton**, S.L. Cady, L.L. Jahnke, and B.K. Pierson. 2008. Diversity of *Chloroflexus*-Like Organisms in an Iron-Depositing Hot Spring in Yellowstone National Park, ASM General Meeting, Boston, MA
- Taylor, S.B., **B.E. Dutton**, K. Noll, R. Pirot. 2007. Riparian Plant Distribution in the Luckiamute River Basin, Central Oregon Coast Range: Preliminary Analysis of Geomorphic and Anthropogenic Controls on Adventive Species Propagation in an Unregulated Watershed. Geological Society of America Fall 2007 Meeting, Denver, Colorado.
- Boomer, S.M., N. Hanson, **B.E. Dutton**, K.L. Shipley, J. Esparza, The Red Layer Microbial Observatory - Undergraduate Research and Outreach in Yellowstone, poster for the NSF/MO PI Workshop, February 2007.
- Boomer, S.M., K.L. Shipley, and **B.E. Dutton**. 2006. The Red Layer Microbial Observatory – Survey and Database Efforts, 1st Annual Yellowstone RCN Workshop, Bozeman, MT.
- Boomer, S.M., D. P. Lodge, K.L. Shipley, and **B.E. Dutton**. 2004. A General Microbiology Lab Curriculum Featuring Culture-Dependent and -Independent Approaches and Computer-Based Project Presentations, ASM General Meeting Abstract, New Orleans, LA.
- Lodge, D.P., S.M. Boomer, and **B.E. Dutton**. 2004. A Bioinformatics Course Emphasizing Molecular Microbial Diversity, ASM General Meeting Abstract, New Orleans, LA.
- Drury, W.M., **B.E. Dutton**, D.P. Lodge, M.S. Boschee, and S.M. Boomer. 2003. The RLMO Database: A Model for the Integration and Dissemination of Biological and Geochemical Data via the World Wide Web, First Annual Workshop on Geothermal Biology and Geochemistry in Yellowstone National Park, Old Faithful, Yellowstone National Park, WY.
- Boomer, S.M., **B.E. Dutton**, W.M. Drury, T. Manning, D.P. Lodge. 2003. The Red Layer Microbial Observatory – a Yellowstone-Based Research Experience for Undergraduates, NSF MO PI Workshop Abstract, Arlington, VA.

### **Scholarly Production – Seminars and Invited Lectures (52):**

- Geographic Information Systems and Spatial Analysis – Fingerprint Characterization and Quantification, 48<sup>th</sup> Annual Training Conference of the International Association for Identification, Pacific Northwest Division, Boise, ID [with P.R. Aldrich, E.K. Dutton, S.B. Taylor, and R.J. Stanley; P.R. Aldrich and E.K. Dutton were the presenters] (May, 2012).
- Application of Spatial Statistics to Latent Print Identifications, NIJ Symposium Presentation at the 64<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Atlanta, GA [with E.K. Dutton, P. Aldrich, S. Taylor, R. Stanley, and S. Hidalgo; E.K. Dutton was the presenter] (February, 2012).
- Geographic Information Systems and Spatial Analysis - Part 1: Quantifying Fingerprint Patterns and Minutiae Distributions. 64<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Atlanta, GA. [with R.J. Stanley, E.K. Dutton, S.B. Taylor, and P.R. Aldrich; R.J. Stanley was the presenter] (February, 2012).
- Geographic Information Systems and Spatial Analysis - Part 2: A Monte Carlo Approach to Estimating Probabilities for Latent Print Identification 64<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Atlanta, GA. [with R.J. Stanley, E.K. Dutton, S.B. Taylor, and P.R. Aldrich; R.J. Stanley was the presenter] (February, 2012).
- Application of Geographic Information Systems and Spatial Statistics to Probability Estimates in Latent-Print Identification. International Association for Identification 2011 Annual International Education Conference, Milwaukee, WI. [with E.K. Dutton, S.B. Taylor, and P. Aldrich; E.K. Dutton and S.B. Taylor presented] (July, 2011).
- Invasive Plant Distribution and Land-Cover Change in the Luckiamute River Basin, Central Oregon Coast Range. 2011 Annual Meeting of the Association of American Geographers, Seattle, WA. [with S.B. Taylor and R. Stanley, S.B. Taylor with the presenter] (April, 2011).
- Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies. 2010 Meeting of the Northwest Association of Forensic Scientists. Portland, Oregon. [with E.K. Dutton, S.B. Taylor, and P. Aldrich; E.K. Dutton and P. Aldrich were the presenters] (October, 2010).
- Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies. 24th Annual AFIS Internet Users Group Conference. Portland, Oregon. [with E.K. Dutton, S.B. Taylor, and P. Aldrich as the presenters] (August, 2010).
- Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies. International Association for Identification 2010 Annual International Education Conference. Spokane, Washington. [with E.K. Dutton, S.B. Taylor, and P. Aldrich; P. Aldrich was the presenter] (July, 2010).
- Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies. 62nd Annual Meeting of the American Academy of Forensic Sciences. Seattle, Washington. [with E.K. Dutton, S.B. Taylor, and P. Aldrich; E.K. Dutton was the presenter] (February, 2010).
- Willamette Alpaca Breeders Association (WABA): *Toxic (and other problematic) Plants of the Mid-Willamette Valley*. (October, 2009).
- Invasive Plant Distribution in the Luckiamute River Basin, Central Oregon Coast Range: Preliminary Analysis of Geomorphic and Land-Use Variables. 2009 Annual Meeting of the Association of American Geographers. Las Vegas, NV [S. Taylor was the presenter] (March, 2009).
- Commemorating Oregon 150 at Western Oregon University: *Invasive Plant Species in Oregon's Past, Present, and Future: A Case Study in the Luckiamute River Basin, Polk County* [with S. Taylor] (February, 2009)
- The Monmouth/Independence (Oregon) Rotary Club: *Plant Species Invasions in Western Oregon: the Luckiamute Watershed as a Case Study* [with K. Noll] (December, 2007)

**Scholarly Production – Seminars and Invited Lectures (continued):**

- The Natural Science and Mathematics Noon Seminar Series (Western Oregon University): *Plant Species Invasions in Western Oregon: The Luckiamute Watershed as a Case Study* [with K. Noll, R. Pirot, and S. Taylor] (November, 2006)
- The Monmouth/Independence (Oregon) Rotary Club: *Invasive Weeds of the Luckiamute Watershed* [with K. Noll] (February, 2006)
- Basket Slough National Wildlife Refuge: *Invasive Weeds at Basket Slough National Wildlife Refuge*. [with L.W. Spring] (July, 2005)
- The April Native Plant Society of Oregon, Willamette Valley Chapter Meeting. The Polk County Flora Project: a Status Report. [with C. Drury and M. LaChapell] (April, 2004).
- The Eugene Natural History Society. Finding **Anemone**: Tales from the Field About a Remarkable Group of Plants (October, 2003)
- PT3 Showcase (Western Oregon University): *Electronic Portfolios for Biology Education Teacher Majors* [with Karen Haberman and Robert Turner] (February, 2003)
- Saturday Academy (held in the Natural Science Building at Western Oregon University): *Crime Scene Investigation: What it takes to be a Forensic Scientist* [with Dr. Emma K. Dutton, Ph.D., Oregon State Police, Forensic Services Division] (April, 2002)
- OCEPT Showcase 2002 (held at McMenamin's Grand Lodge): *The Environmental Science Institute at Western Oregon University: An OCEPT Success Story* [with Stephen Taylor and Pete Poston] (February, 2002)
- PT3 Showcase (Western Oregon University): *Electronic Portfolios for Biology Education Teacher Majors* [with Sarah Boomer, Irja Galvan, Lonnie Guralnick, Kaberman, Adele Schepige and Robert Turner] (January, 2002)
- PT3 Showcase (Western Oregon University): *Natural Science, Field-Based Technology for K-12 Education Majors* [with Jeffrey Myers, Pete Poston and Stephen Taylor] (January, 2002)
- The Monmouth/Independence (Oregon) Rotary Club: *Anemone (Ranunculaceae): Options for the Pacific Northwest Garden* (January, 2002)
- North American Rock Garden Society, Emerald Chapter (Eugene-Corvallis, Oregon): *Anemone (Ranunculaceae): Options for the Pacific Northwest Garden* (November, 2001)
- OCEPT Biology Team Meeting (held at Western Oregon University): *Western Oregon University's Natural Science Summer Institute (NSSI)* (November, 2001)
- The Natural Science and Mathematics Noon Seminar Series (Western Oregon University): *Phylogeny and Systematics of Anemone sensu lato: Did Linnaeus have it Right?* (October, 2001)
- Teaching and Learning with Technology (Western Oregon University): *Student Scientific Presentation Technologies* [with Robert Turner] (October, 2001)
- GIS Workshop (Western Oregon University): *GIS and Community Mapping*, [with Stephen Taylor] (August, 2001)
- OCEPT Biology Team Meeting (held at Portland Community College, Sylvania Campus): *Interactive Plant Identification, an example of a Technology-Rich exercise used in the Natural Science Summer Institute course* (July, 2001)
- OCEPT Showcase 2001 (held at Willamette University): *A Course in Natural Science: A Model for Integrating Content, Research, and Pedagogy*, with Stephen Taylor (June, 2001)
- Upward Bound Program at Western Oregon University (held, in part, in the Natural Science Building at WOU followed by a field trip): *The Polk County Flora Project* (April, 2001)
- Oregon Junior Academy of Science 2001, Western Oregon University (held at WOU): *Student Research Opportunities in Plant Systematics: The Polk County Flora Project* (March, 2001)
- Saturday Academy (held in the Natural Science Building at Western Oregon University): *Computers and Plants* [with Dr. Emma K. Dutton, Ph.D., SIGA Pharmaceuticals] (February, 2001)
- OCEPT Showcase 2000 (Pacific University): *Structured Study Halls and BioExcel* [with Robert Turner, Ph.D. and Karen Haberman, Ph.D., Western Oregon University] (June, 2000)

### **Scholarly Production – Seminars and Invited Lectures (continued):**

- Saturday Academy (held in the Natural Science Building at Western Oregon University): *From Botany to Brains: Is Biology for You?* [with Dr. Emma K. Dutton, Ph.D., SIGA Pharmaceuticals] (February, 2000)
- Oregon Junior Academy of Science 2000, Western Oregon University: *Polk County Vegetation Survey* (March, 2000)
- Oregon Junior Science and Humanities Symposium, Western Oregon University: *Those Green, Photosynthesizing Biological Organisms* (April, 2000)
- Western Oregon University Campus Estates: *How to Plant Annuals* (May 1999)
- The Native Plant Society of Oregon, Willamette Valley Chapter: *Planning a Modern Flora of Polk County, Oregon: A Status Report* (April, 1999)
- The Natural Science and Mathematics Noon Seminar Series (Western Oregon University): *It's Not An Optical Illusion, It Just Looks That Way: The Musings of a Plant Taxonomist* (April, 1999)
- The Monmouth/Independence (Oregon) Rotary Club: *An Interactive Flora of Polk County Oregon – Combining Research Opportunities with Interested Students* (March, 1999)
- Voorhees High School, Lebanon Township, New Jersey: *The New York Metropolitan Flora Project* (1998)
- Queens College, Biology Department: *Phylogeny and Systematics of Anemone sensu lato (Ranunculaceae) Worldwide* (1998)
- The Rock Garden Society of America, Manhattan Chapter: *Anemone (Ranunculaceae): Examples from the field that might be considered for the home* (1998)
- The Long Island Botanical Society: *Anemones of China* (1997)
- The New York Academy of Sciences: *The New York Metropolitan Flora* (with Steven E. Clemants, 1997)
- American Association of Botanical Gardens and Arboreta: *The World Wide Web: Pitfalls and Possibilities* (1997)
- Harvard University Herbaria: *The New York Metropolitan Flora* (with Steven E. Clemants, 1996)
- The Torrey Botanical Club: *The Anemones of North America* (1995)
- Louisiana Academy of Sciences: *A Preliminary Survey of the Vascular Flora of Cameron Parish (LA)* (with R. Dale Thomas, 1985)

### **Scholarly Production – Electronic Publications/Websites Maintained:**

- Dutton, B.E.** 2002 (November) onward. An Online, Interactive Flora of Polk County, Oregon (<http://www.wou.edu/~duttonb/PCFP>)
- Dutton, B.E.** 1996 (August). The New York Metropolitan Flora: key to the woody plants (<http://www.bbg.org/nymf/key/key.htm>).
- Dutton, B.E.** 1996 (August). The New York Metropolitan Flora [family treatments]: Agavaceae, Araliaceae, Berberidaceae, Betulaceae, Buxaceae, Caesalpiniaceae, Calycanthaceae, Caprifoliaceae (with Steven D. Glenn), Ebenaceae, Elaeagnaceae, Fabaceae, Fagaceae, Ginkgoaceae, Hippocastanaceae, Juglandaceae, Meliaceae, Menispermaceae, Mimosaceae, Nyssaceae, Platanaceae, Ranunculaceae, Rubiaceae, Rutaceae, Salicaceae, Santalaceae, Simaroubaceae, Solanaceae, Staphyleaceae, Styracaceae, Taxaceae, Taxodiaceae, Ulmaceae, Viscaceae ([http://www.bbg.org/nymf/encyclopedia/\["family mnemonic"\]/\\* .htm](http://www.bbg.org/nymf/encyclopedia/[)).

### **Awards:**

- 2011 Outstanding Faculty Academic Advising Certificate of Merit - The National Academic Advising Association (NACADA) (awarded April, 2011)

**Awards (continued):**

Certificate of Excellence, in recognition of excellence in securing extramural funding to advance sponsored research, instruction, and service at Western Oregon University (awarded June, 2010)

2008-2009 Academic Faculty Advisor of the Year, Western Oregon University (awarded May, 2009)

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Write-On! Participant (June 2005)

Outstanding Advisor to ASWOU Clubs and Organizations (2001-2002 - Western Oregon University)

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Write-On! Participant (June 2002)

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Faculty Fellow, Elementary/Middle Strand (2001-2002)

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Faculty Fellow, Elementary/Middle Strand (2000-2001)

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Faculty Fellow, Excel Program (1999-2000)

The Carroll E. Cox Graduate Student Research Award in Botany (1990 - University of Maryland, College Park)

The Jane M. Prichard Graduate Student Teaching Award in Botany (1988 - University of Maryland, College Park)

**Grants:**

U.S. Department of Justice (DOJ). *Phase II - Application of Spatial Statistics and Probabilities to Latent Print Comparisons: Connecting Research to Forensic Practice* [with Stephen B. Taylor, Emma K. Dutton, and Patrick Aldrich] (Submitted April, 2012) Amount Requested: \$686,267

U.S. Department of Justice (DOJ). *Spatial Analysis of Friction Skin Deformation And Fingerprint Distortion: A Novel Approach Using Geographic Information Systems and Geometric Morphometric Methods* [with Stephen B. Taylor, Emma K. Dutton, and Patrick Aldrich] (Submitted April, 2012) Amount Requested: \$606,381

U.S. Department of Justice (DOJ). *Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies* [with Emma K. Dutton, Stephen B. Taylor, and Patrick Aldrich] (September, 2009) \$685,754

Western Oregon University, Faculty Development, Major Project Grant, *Distribution of Invasive Plant Species in the Luckiamute Watershed, Polk and Benton Counties, Oregon: Analysis of Controlling Variables and Migration Pathways* (February, 2008) \$2,904

Western Oregon University Foundation, *Creating Species Distribution Maps using a Geographic Information System for the An Online, Interactive Flora of Polk County, Oregon Project* (January, 2007) \$996

Western Oregon University Foundation, *Showcase* [with Rob Winningham] (February, 2006) \$1500

Katherine Bisbee II Fund of The Oregon Community Foundation, *Geomorphic and Anthropomorphic Influences on the Distribution of Invasive Plant Species in the Luckiamute Watershed, Polk and Benton Counties, Oregon* [with Stephen Taylor] (November, 2004) \$5,000

Western Oregon University, Faculty Development, Major Project Grant, *Geomorphic and Anthropomorphic Influences on the Distribution of Invasive Plant Species in the Luckiamute Watershed, Polk and Benton Counties, Oregon* [with Stephen Taylor] (January, 2004) \$6,000



### **Grants (continued):**

- Western Oregon University Foundation, *Development of Plant Identification Applications for the Online, Interactive Flora of Polk County, Oregon Project* (January, 2004) \$975
- Katherine Bisbee II Fund of The Oregon Community Foundation, *Geomorphic and Anthropomorphic Influences on the Distribution of Invasive Plant Species in the Luckiamute Watershed, Polk and Benton Counties, Oregon* [with Stephen Taylor] (November, 2003) \$7,000
- Western Oregon University, Center for Teaching and Learning Project, *Luckiamute Watershed Project – An Activity in Support of Enhancing the Environmental Science Institute at Western Oregon University* [with Stephen Taylor (Principal Author)] (Summer, 2003) \$4,000
- Western Oregon University, PT3 Mini-grant, *Enhancing Preservice Teachers Understanding of “Authentic” Science Investigations* [Philip Wade (Principal Author), Bryan Dutton, Arlene Courtney, Karen Haberman, Adele Schepige] (October, 2002) \$8,000
- Western Oregon University, PT3 Mini-grant, *Visual/Spatial Thinking via GIS in General Science for Elementary Schools Courses* [Philip Wade (Principal Author), Bryan Dutton, Karen Haberman, Adele Schepige] (February, 2002) \$4,620
- Western Oregon University, PT3 Mini-grant, *Analytical Thinking through Digital Image Analysis for Biology Education* [with Karen Haberman, Robert Turner, Adele Schepige] (November, 2001) \$4,551
- Western Oregon University, PT3 Mini-grant, *Electronic Portfolios for Biology Education Teacher Majors* [with Sarah Boomer, Irja Galvan, Lonnie Guralnick, Karen Haberman, Adele Schepige, Robert Turner] (April, 2001) \$7,987
- Western Oregon University, PT3 Mini-grant, *Natural Science, Field-Based Technologies for K-12 Education Majors* [with Jeffrey Myers, Pete Poston, Adele Schepige, Stephen Taylor] (April, 2001) \$8,310
- Western Oregon University, School of Liberal Arts and Sciences, *Upgrading Biological Computing Facilities in Natural Science 204* [with Robert Turner] (April, 2000) \$3,250
- Western Oregon University, Faculty Development, Major Project Grant, *An Online, Interactive Flora of Polk County, Oregon* (January, 2000) \$2,700
- Western Oregon University Foundation, *Biological Applications of Microscopic Videography and Digital Image Production* (December, 1999) \$650
- Western Oregon University, New Faculty “Start-up” Funds, *An Online, Interactive Flora of Polk County, Oregon* (February, 1999) \$9,700
- Western Oregon University, Faculty Development, Major Project Grant, *An Online, Interactive Flora of Polk County, Oregon* (January, 1999) \$2,700
- National Research Council Twinning Grant, *International collaborative monographic Studies on Anemone (Ranunculaceae)* (1996-1997) \$13,060
- New York Community Trust, *New York Metropolitan Flora - Science Apprenticeships for Young People* - Awarded to the Brooklyn Botanic Garden (1997-1998) \$105,000
- The Greenwall Foundation, *New York Metropolitan Flora - Teacher Fellowships* - Awarded to the Brooklyn Botanic Garden (1998) \$50,000
- The Achelis Foundation, *New York Metropolitan Flora - Science Apprenticeships for Young People* - Awarded to the Brooklyn Botanic Garden (1997-1998) \$30,000

### **Courses Taught:**

#### *Regular Course Offerings*

- Biology 101 (General Biology) Lecture: Fall 2008, Summer 2008, Summer 2007, Fall 2006, Summer 2006, Fall 2003, Fall 2002, Summer 2001, Fall 2000 (2 sections), Winter 2000, Summer 1999; Fall 1999 (2 sections), Fall 1998 (2 sections)

### **Courses Taught (continued):**

Biology 101 Laboratory (General Biology): Fall 2010 (2 sections), Fall 2009, Fall 2008, Summer 2008, Summer 2007, Summer 2006, Fall 2002 (2 sections), Fall 2001 (2 sections), Winter 2000 (2 section), Fall 1999, Winter 1999 (2 sections), Fall 1998 (3 sections)

Biology 102 (General Biology) Lecture: Summer 2009, Winter 2008, Summer 2006, Winter 1999

Biology 102 Laboratory (General Biology): Winter 2010, Summer 2009, Summer 2006, Winter 2003 (2 sections), Winter 2002 (2 sections), Winter 2001, Spring 1999, Winter 1999

Biology 103 (General Biology) Lecture: Spring 1999

Biology 103 Laboratory: Winter 2007, Winter 2006 (2 sections), Winter 2005

Biology 212 (Principles of Biology) Lecture: Winter 2011 (co-taught with Karen Haberman), Winter 2009 (co-taught with Michael LeMaster), Winter 2001 (co-taught with Lowell Spring), Winter 2000 (co-taught with Lowell Spring), Winter 1999 (co-taught with Lowell Spring)

Biology 212 Laboratory: Winter 2012 (5 sections, co-taught with Karen Haberman), Winter 2011 (5 sections, co-taught with Karen Haberman), Winter 2009 (5 sections, co-taught with Kelly Kissane), Winter 2001 (2 sections), Winter 2000 (2 sections), Winter 1999 (2 sections)

Biology 212 XL (Peer-Led Team Learning): Winter 2009 (co-taught with Michael LeMaster), Winter 2001 (co-taught with Lowell Spring), Winter 2000

Biology 213 (Principles of Biology) Lecture: Spring 2010 (co-taught with Ava Howard), Spring 2009, Spring 2008, Spring 2007 (co-taught with Lonnie Guralnick), Spring 2006 (co-taught with Lonnie Guralnick), Spring 2005 (co-taught with Lonnie Guralnick), Spring 2004 (co-taught with Lonnie Guralnick), Spring 2003 (co-taught with Lonnie Guralnick), Spring 2002 (co-taught with Lonnie Guralnick), Spring 2000 (co-taught with Karen Haberman)

Biology 213 Laboratory: Spring 2008 (2 sections), Spring 2007 (3 sections), Spring 2006 (3 sections), Spring 2005 (2 sections), Spring 2004 (3 sections), Spring 2003 (3 sections), Spring 2002 (2 sections), Spring 2000

Biology 213 XL (Peer-Led Team Learning): Spring 2010, Spring 2009, Spring 2008, Spring 2007 (co-taught with Lonnie Guralnick), Spring 2006 (co-taught with Lonnie Guralnick), Spring 2005 (co-taught with Lonnie Guralnick), Spring 2004 (co-taught with Lonnie Guralnick), Spring 2003 (co-taught with Lonnie Guralnick), Spring 2002 (co-taught with Lonnie Guralnick)

Biology 301 (Introduction to Computational Biology) Lecture & Laboratory: Winter 2004 (co-taught with Sarah Boomer), Winter 2002 (co-taught with Sarah Boomer), Winter 2001 (co-taught with Sarah Boomer)

Biology 316 (formerly Bi 312 - Evolution) Lecture & Discussion: Spring 2012 (3 discussion sessions), Spring 2011 (3 discussion sections), Winter 2010 (2 lab sections), Winter 2009 (2 lab sections), Winter 2008 (2 lab sections), Winter 2007 (2 lab sections), Winter 2006 (2 lab sections), Winter 2005 (lecture only), Winter 2004 (lecture only), Winter 2003 (lecture only)

Biology 321 (Systematic Field Botany) Lecture & Laboratory: Spring 2012, Spring 2011, Spring 2010, Spring 2009, Spring 2008, Spring 2007, Spring 2006, Spring 2005 (2 lab sections), Spring 2004, Spring 2003, Spring 2002 (2 lab sections), Spring 2001 (2 lab sections), Spring 2000 (2 lab sections), Spring 1999 (2 lab sections)

Biology 371 (Structure of Seed Plants) Lecture & Laboratory: Fall 2011, Fall 2009, Fall 2007, Fall 2005, Fall 2003, Fall 2001, Fall 1999

Biology 458/558 (Wildflowers of the Oregon Coast Range): Summer 2005

Biology 458/558 (Wildflowers of the Cascades): Summer 2005

Biology 458/558 (Biodiversity): Summer 2004

Biology 458/558 (Conservation Biology): Summer 2003

Biology 458/558 (Edible & Poisonous Plants): Summer 2002

Biology 458/558 (Field Biology: Botanical Survey Methods): Summer 1999

Biology 461/561 (Conservation Biology): Fall 2010, Fall 2008

Biology 465/565 (Natural History of the Mushroom): Fall 2004, Fall 2002, Fall 2000, Fall 1998

### **Courses Taught (continued):**

- Biology 475 (Molecular Biology): Spring 2001 (assisted Robert Turner and Sarah Boomer with Molecular Biology Laboratory (Bioinformatics/Phylogenetics)), Spring 2000 (assisted Robert Turner and Sarah Boomer with Molecular Biology Laboratory (Bioinformatics/Phylogenetics))
- General Science 311 (Biology for Elementary Schools): Winter 2006, Summer 2005, Winter 2005, Fall 2004, Winter 2004, Winter 2003, Fall 2003, Summer 2003, Fall 2002, Winter 2002, Fall 2001, Spring 2001, Fall 2000, Summer 2000
- Natural Science 481/581 (Natural Science Summer Institute: Applied Field Studies of the Willamette Watershed): Summer 2001 (co-taught with Jeff Myers, Pete Poston & Steve Taylor)

### **Individual Studies, Seminars, and Practica**

- Biology 406 (Invasive Plant Research): Spring 2012
- Biology 406 (Forensics Research): Spring 2012
- Biology 406 (SIS: Invasive Plant Research): Spring 2009
- Biology 406 (SIS: Interactive Keys): Summer 2008
- Biology 406 (Applied Conservation Biology): Fall 2006
- Biology 406 (Invasive Species Research): Spring 2007
- Biology 406 (Biology for Elementary Schools): Summer 2007
- Biology 406 (Biological Applications Of Geographic Information System (GIS)): Spring 2005, Winter 2005, Spring 2003, Winter 2003
- Biology 406 (A Preliminary Analysis of Pacific NW Mertensia (Boraginaceae)): 2002-2003
- Biology 406 (Application of GIS and Interactivity to City Tree Inventories): Winter 2000
- Biology 407/507 (Poisonous & Edible Plants): Summer 2009
- Biology 407/507 (Wildflowers of the Cascades): Summer 2008
- Biology 407/507 (Wildflowers of the Willamette Valley): Summer 2007
- Biology 407/507 (Plant-Based Service Learning Activities): Summer 2007
- Biology 407/507 (Weeds of the West): Summer 2006
- Biology 409 (Greenhouse Maintenance Techniques): Fall 2006
- Biology 409 (PRACT: National Cancer Institute): Summer 2006
- Biology 506 (Floristic Databases): Fall 2003
- Biology 506 (Interactive Technologies Employed in Plant Systematics): Fall 2003
- Biology 506M (Biology for Elementary Schools): Summer 2003
- Biology 506M (Ecology of the Luckiamute Watershed): Summer 2001
- Biology 506M (Systematic Field Botany For Elementary Schools): Spring 2000
- Biology 506M (Special Investigation of the Structure of Seed Plants): Fall 1999
- Biology 507 (Special Laboratory Investigation of the Structure of Seed Plants): Fall 1999
- Biology 606 (SIS: Evolutionary Biology): Summer 2008

### **Service – Editorial and Reviewer Experience:**

- Systematic Botany* (The American Society of Plant Taxonomists). 2011.
- Journal of the Botanical Research Institute of Texas* (formerly *Sida, Contributions to Botany*). 2007.
- The Vasculum*. 2006 -. The Society of Herbarium Curators' official Newsletter. (Assistant Editor)
- Botany terminology consultant for Houghton-Mifflin's *The American Heritage Dictionary of the English Language* (4<sup>th</sup> edition) (1998 to 2000).
- Grolier Incorporated. 1997. *Flowers in: The New Book of Knowledge*.
- Flora of China Editorial Committee. 1996. *Flora of China, Volume 15*, Myrsinaceae through Loganiaceae, Science Press & Missouri Botanical Garden (St. Louis), Hong Kong, 387 pp. (Editorial Assistant)

**Service – Editorial and Reviewer Experience (continued):**

Flora of China Editorial Committee. 1995. *Flora of China, Volume 16*, Gentianaceae through Boraginaceae, Science Press & Missouri Botanical Garden (St. Louis), Hong Kong, 479 pp. (Editorial Assistant)

Flora of China Editorial Committee. 1994. *Flora of China, Volume 17*, Verbenaceae through Solanaceae, Science Press & Missouri Botanical Garden (St. Louis), Hong Kong, 378 pp. (Editorial Assistant)

*Cathaya*. 1990-92. Volumes 2-4. (Executive Editor)

*Maryland-China Exchange Newsletter*. 1988-89. Volumes 6-8. (Editor)

National Geographic Society. 1987. *Plants: Parts and Processes - Roots, Stems, and Leaves* and *Plants and Processes - Flowers and Seeds*. (Junior high school level educational filmstrips)

**Service – Institutional Positions & Committees:**

Grants Task Team (2012-)

Faculty Senate, Western Oregon University (Fall 2011)

Committee on Committees, Western Oregon University (2010-2011)

Curriculum Committee, Division of Natural Sciences and Mathematics, Western Oregon University (2009-)

Past President, WOU Chapter, the Honor Society of Phi Kappa Phi (2009-2011)

Building Utilization and Planning Working Group, Division of Natural Sciences and Mathematics, Western Oregon University (2008-2010)

Technology Committee, Division of Natural Sciences and Mathematics, Western Oregon University (2008-)

Academic Infrastructure Committee, Western Oregon University (Fall 2008)

Chair, Provost Search Committee, Western Oregon University (2007-2008)

President, WOU Chapter, the Honor Society of Phi Kappa Phi (2007-2009)

Committee on Committees, Faculty Senate, Western Oregon University (2007-2009)

Executive Committee, Faculty Senate, Western Oregon University (2006-2008)

President, Faculty Senate, Western Oregon University (2006-2007)

Executive Committee, Program for Undergraduate Research Experiences (PURE) (2006-2012)

Curriculum Committee, Division of Natural Sciences and Mathematics, Western Oregon University (2006-2008)

President-Elect, WOU Chapter, the Honor Society of Phi Kappa Phi (2005 - 2007)

Co-Chair, Program for Undergraduate Research Experiences (PURE) Taskforce (2004-2006)

Graduate Study Committee, Western Oregon University (2004-2006)

Search Committee Member for the Director of the Center for Teaching and Learning (2004-2005)

Head, Department of Biology, Western Oregon University (2003-2006)

Personnel Review Committee, Division of Natural Sciences and Mathematics, Western Oregon University (2003-2005)

Search Committee Member for the Vice President for Student Affairs (2003-2004)

Technology Planning Committee, Division of Natural Sciences & Mathematics, Western Oregon University (2002-2003)

University Technology Planning Group, Western Oregon University (2002-2004)

Preparing Tomorrow's Teachers to Use Technology (PT3) Planning Retreat (2000)

Computer Committee, Division of Natural Sciences & Mathematics, Western Oregon University (1999-2002)

Professional Concerns Committee, Division of Natural Sciences & Mathematics, Western Oregon University (1999-2004)

***Service – Institutional Positions & Committees (continued):***

Academic Information Services Committee, Western Oregon University (1999-2002)  
Policy Committee, Department of Botany, University of Maryland (1989-1990)  
Greenhouse Committee, Department of Botany, University of Maryland (1986-1987)  
Curriculum Committee, Department of Botany, University of Maryland (1986)

***Memberships:***

American Society of Plant Taxonomists  
Council on Undergraduate Research  
International Association of Plant Taxonomists  
National Academic Advising Association (NACADA)  
National Association of Advisors for the Health Professions (NAAHP)  
National Science Teachers Association (NSTA)  
Northwest Scientific Association  
Society of Systematic Biologists  
The Honor Society of Phi Kappa Phi  
The Society of Herbarium Curators  
The Willi Hennig Society