

# Linda M. Westgate

Department of Ecology, Evolution, and Organismal Biology and  
Department of Genetics, Development, and Cell Biology  
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## Professional Preparation

B.S., Chemistry, University of Missouri, Columbia: 1977  
M.S. Geochemistry, University of Illinois, Urbana: 1983  
Honorary Masters Degree in Principles of Biology, Iowa State University, 2008

## Awards

2006 Professional and Scientific Excellence Award from the College of Liberal Arts and Sciences of Iowa State University.

1997 Community Leadership Award from Educators, Staff, and School Board District 769, Morris Minnesota.

## Appointments

2000 – present:	Senior Teaching Lab Coordinator: EEOB/GDCB
1998-2000	Assistant Chemist: Veterinary Diagnostic Laboratory, College of Veterinary Medicine, Iowa State University
1996-1998	CEO/President of BellRose Inc. ( S-Corporation)
1994-1998	Creator/Owner of <i>ExperiMania</i> <sup>sm</sup> (Sole Proprietor)
1984-1992	Instructor: Dept. of Chemistry, University of Minnesota, Morris, MN
1979–1983	Laboratory Supervisor: University of Illinois, Urbana, IL
1973–1979	Chemist and Supervisor: Corporate Industrial Hygiene Laboratory. Monsanto Company, St Louis, Missouri:

## Consulting Experience

- **McGraw-Hill Publishing – 2004**  
Revised and edited Laboratory Preparation Guide for the 7<sup>th</sup> edition of "Biological Investigations" by Dr. Warren D. Dolphin. Published 2004.
- **McGraw-Hill Publishing -2004**  
Created educational Animations
- **Regional Fitness Center(RFC) Marketing consultant & project coordinator 1997-1998**
- **International Consulting Nizhny Tagil, Russia -- Water Quality Specialist-- 1996**

## Publications

Colbert, J.T. and **Westgate, L.M.** 2015. Exploring Biological Diversity with *Introductions to Genetics, Evolution, and Ecology*, 3<sup>rd</sup> edition, Fountainhead Press, (in Press).

Colbert, J.T. and **Westgate, L.M.** 2014. Exploring Biological Diversity with *Introductions to Genetics, Evolution, and Ecology*, 2<sup>nd</sup> edition, Fountainhead Press, Southlake, Tx. 84 pgs

Colbert, J.T. and **Westgate, L.M.** 2013. Exploring Biological Diversity and *Introductions to Genetics, Evolution, and Ecology*, Fountainhead Press, Southlake, TX. 74 pgs.

Colbert, J.T. and **Westgate, L.M.** 2012. Exploring Biological Diversity, Published by Iowa State University, 2012.

Dolphin, W.D., Vleck, D., Colbert, J.T., and **Westgate, L.M.**; 2010. *Biological Investigations, Form, Function, Diversity, and Process*. 9<sup>th</sup> ed. Published by McGraw Hill Higher Education, N.Y, N.Y. 466 pgs

Dolphin, W.D. and **Westgate, L.M.** 2004. Laboratory Preparation Guide for Biological Investigations, *Form, Function, Diversity, and Process*. 7<sup>th</sup> ed. Published by McGraw Hill Higher Education, N.Y, N.Y. 108 pgs

**Westgate, L.M.** 1998. Service Mark for ***ExperiMania***. US 2,153,540. US Patent and Trademark Office. Washington, DC

**Westgate, L.M.**, 1996. Trademark for "***Ruse it!***"<sup>®</sup> a game of chance and wit." US 1,945,697. US Patent and Trademark Office. Washington, DC.

**Westgate, L.M.** 1991. Gas Chromatography-Graphic Animation of Instrumental Methods (GC-GAIM). SCCS Proceedings of the 24th Annual Small College Computing Symposium, University of Minnesota, Morris, April 19-20, 1991. P. 327-334.

**Westgate, L.M.** and Anderson, T.F., 1984. Isotopic Evidence for the Origin of Sulfur in the Herrin (No. 6) Coal Member of Illinois. *Int. J. Coal Geol.* 4:1-20.

**Westgate, L.M.** 1983. Variations in Ratios of Sulfur Isotopes in the Herrin (No. 6) Coal Member of Illinois. University of Illinois Urbana, M.S. Thesis: 78 pp.

**Westgate, L.M.** and Anderson, T.F., 1982 Extraction of Various Forms of Sulfur from Coal and Shale for Stable Sulfur Isotope Analysis. *Anal. Chem.* 54(12):2136-2139.

**Chapman\*, L.M.** and Ward, B., 1979. Validation of Gas Sampling Methods with Porous Polymer Beads Under Field Insult Conditions. *Am J. of Industrial Hygiene.* 39(5):385.

Dietrich, M. and **Chapman\*, L.M.**, 1977. Gas and Vapor Sampling Methods Using Porous Polymer Beads. *Am. J. of Industrial Hygiene.* 39(5):385.

Short Description of previous experience:

- Formed ***ExperiMania***<sup>sm</sup>, a company to create and teach science programs to young people in summer camps and enrichment programs. These classes promoted creativity, experimentation, and the practical aspects of science and math. The curriculum included sixteen unique classes and served hundreds of young people in West Central Minnesota. In February 1998, ***ExperiMania***<sup>sm</sup> received Service Mark approval from the US Patent Office.
- Created BellRose Inc. a company through which I invented, manufactured, marketed, and distributed the family dice game ***Ruse it!***<sup>®</sup>, a game of chance and wit. ***Ruse it!***<sup>®</sup> received trademark approval from the US Patent Office in 1996. In 1997, it was reviewed and selected by *Games Magazine* as one of their top game choices for the year.

- In 1996, selected by Winrock International to serve as the water quality specialist on an international assignment in Nizhny Tagil, Russia. Nizhny Tagil is a large industrial city of 0.5 million people. My task, on the four member team, was to evaluate the water quality and recommend ways of purifying the water to be used at an infant formula production facility. The project required teamwork, communication with Russian officials, quick analysis of the problem, and an integrated solution designed to meet the needs and resources of the region.
- Managed the marketing strategy between several different agencies and groups to approve and build a Regional Fitness Center in a small rural town of 5000 people. These groups included the University of Minnesota Morris, Stevens County, City of Morris, Stevens Community Hospital, Morris Area School District 769, Stevens County Economic Improvement Commission, Chamber of Commerce, local businesses, and the general public. The \$5 million dollars required to build the RFC came through a \$1 million school referendum successfully passed, \$2.5 million from the State Legislature (obtained through State lobbying efforts), \$200,000 from the city, \$200,000 from the county, and \$1.1 million from private grants and donations. The success of this project depended on the cooperation of all these agencies.