

## **Biography - Dr. Mark R. Luttenton**

Mark Luttenton, became a faculty member at GVSU in August 1989, and is currently the Associate Dean of the Graduate School, holds the rank of Professor of Biology, and is an Associate Research Scientist in the Annis Water Resources Institute. He earned a B.S. in Biology with a minor in chemistry from Central Michigan University (1977), an M.S. in Biology from University of Wisconsin-LaCrosse (1981), and received a Ph.D. in Aquatic Ecology from Bowling Green State University (1989).

Dr. Luttenton began his teaching career in 1977 at the Toledo YMCA outdoor education center. Prior to joining GVSU, he taught at East Carolina University and Findlay College. Since joining GVSU, he has taught over a dozen different courses covering a wide range of topics, and was recognized as the 2006 Outstanding Educator by the GV Alumni Association. In addition to his teaching duties at GVSU, he has served as Acting Biology Department Unit Head, Acting Director of the Annis Water Resources Institute, and served for 14 years as the Biology Graduate Program Coordinator.

Dr. Luttenton's research has covered a broad range of ecological systems ranging from small streams to the Mississippi River and from the Great Lakes to small freshwater pools in the Bahamas. He has conducted research on native and invasive plants, protozoans, invertebrates, and fish including the ecology of stream dwelling trout, trout diseases, and stream community bioenergetics. He is currently collaborating with researchers at three institutions on a study to explore the diversity of fungi found at the bottom of the Great Lakes. The research team is screening the fungi for chemicals that may destroy a range of cancer cells types, or alternatively, stimulate nerve cell growth.

Over the past 20 years, Dr. Luttenton has also worked with a number of conservation groups to help protect our natural resources, including the Michigan Citizens for Water Conservation.

## Biographical Sketch – Mark Luttenton

### A. Education

|                                    |         |       |      |
|------------------------------------|---------|-------|------|
| Central Michigan University        | Biology | B.S.  | 1977 |
| University of Wisconsin – LaCrosse | Biology | M.S.  | 1981 |
| Bowling Green State University     | Biology | Ph.D. | 1989 |

### B. Appointments

2016 – Associate Dean of The Graduate School

2011 (fall) – Interim Director, Annis Water Resources Institute, Grand Valley State University

2006 – present. Professor, Grand Valley State University, Allendale, Michigan.

1996-1998. Visiting Research Scientist, National Oceanographic and Atmospheric Administration, Great Lakes Environmental Research Laboratory Ann Arbor, Michigan.

1995 – 2006. Associate Professor, Grand Valley State University, Allendale, Michigan.

1989 – 1995, Assistant Professor, Grand Valley State University, Allendale, Michigan.

### C. Publications

Zuiderveen, G. H., T. Evans, T. Schmidt and **M. Luttenton**. Geographic distribution of native and invasive haplotypes of *Phragmites australis* along Michigan's west coast. *Michigan Botanist*. (accepted)

Woller-Skar, M. M., D. Jones, **M. Luttenton** and A. Russell. 2015. Microcystin detected in little brown bats (*Myotis lucifugus*). *American Midland Naturalist* 174:331-334.

S. S. Johnson, **M. R. Luttenton** and A. G. Nikitin. 2009. Genetic variation at the *ND-1* locus among North American wild and hatchery brown trout (*Salmo trutta*). *Journal of Great Lakes Research* 35:163-167.

Steinman, A.D., **M. Luttenton**, and K.E. Havens. 2004. Sustainability of surface and subsurface water resources: case studies from Florida and Michigan. *Water Res. Update* 127:100-107.

### D. Grant Funding

Luttenton, M. (PI), Fine Scale Regulation and Bioenergetics of Brook Trout in Cedar Creek, Kent, Co., MI. National Trout Unlimited, Schrems West Michigan Trout Unlimited, GVSU. \$52,298, Funding period - 4/2015-8/2016.

Cichewcz, R. (Principal), M. Luttenton, (Co-PI), S. Mooberry, (Co-PI), L. Du (Co-PI), A. Risinger (Co-PI), A. Miller (Co-PI). Sourcing Bioactive Secondary Metabolites from Great Lakes Fungi. National Institute of Health, \$2,729,657 (total), \$250,000 (Luttenton) Funding period - 6/2014–12/2018.

### E. Current and Recent Research

1. Relationship between snail populations, algal biomass, and nutrients.
2. Movement and habitat use by brook trout and brown trout in the AuSable River.
3. Aquatic invertebrate and algal community dynamics in the AuSable River.
4. Abundance and distribution of the New Zealand mud snail in the AuSable River system.
5. Ecology of Great Lakes benthic fungal communities.