

CIRRICULUM VITAE
Edward W. Burkett
University of Wisconsin-Superior
Department of Natural Sciences
Superior, WI 54880

Email: eburkett@uwsuper.edu
Work 715-394-8253

Education

Ph.D.: University of Wisconsin - Milwaukee, Milwaukee, Wisconsin
Biological Sciences, May 1989.

M.S.: Indiana University of Pennsylvania, Indiana, Pennsylvania.
Biological Sciences, May 1982.

B.S.: University of Pittsburgh at Johnstown, Johnstown, Pennsylvania.
Biology, with honors, May 1979.

Professional Experience

2001-Present: Professor of Biology at the University of Wisconsin – Superior
1996-2001: Associate Professor of Biology at the University of Wisconsin -- Superior
1990-1995: Assistant Professor of Biology at the University of Wisconsin -- Superior
1988-1990: Associate Lecturer, University of Wisconsin -- Milwaukee (UWM)
1987-1988: Lecturer, University of Wisconsin -- Milwaukee

Honors and Awards

2000 Max Levine Award for Excellence in Contemporary Research
1999 Chancellor's Award for Model Teaching 1994
Model Advising Award.
1993 Chancellor's Award for Model Teaching

Courses Taught

Bio100 Environmental Science	Bio112 Zoology	Bio115 Human Biology
Bio130 Principles of Biology	Bio270 Human A&P	Bio300 Marine Biology
Bio340 Ecology	Bio367 Ornithology	Bio380 Vertebrate Biology
Bio431 Animal Behavior	Bio420 Field Biology	Bio481 Coral Reef Ecology
Bio492 Biology Seminar	Bio281 Honey Bee Biology	

Research Interests

Use of the proboscis extension reflex (PER) to evaluate the influence of pesticides on Honey Bee (*Apis mellifera*) learning and memory

Development and use of remote sensing to evaluate microenvironmental conditions within the hives of Honey Bees (*Apis mellifera*)

Selection and production of queen honey bees (*Apis mellifera*) that are hygienic and winter hardy in northern latitudes

Development of technologies to reduce winter mortality of Honey Bee (*Apis mellifera*) colonies in northern latitudes

The evolution and plasticity of “bold” and “shy” phenotypes in the Guppy (*Poecilia reticulata*)

The influence of age and sex on food preferences in the Madagascar Hissing Cockroach (*Gromphadorhina portentosa*)

The importance of male hissing to mate selection and dominance hierarchies in Madagascar Hissing Cockroaches (*Gromphadorhina portentosa*)

Investigation of how food deprivation influences aggression and territorial ownership in male Fiddler Crabs (*Uca pugilator*)

Assessment of temporal changes in coral reef community structure as a predictor of reef recovery following natural and anthropogenic disturbances of different types and magnitude.

Publications and Reports

Paddock, M.J., Burkett, E.W., et al. 2009. **Recent Region Wide Declines in Caribbean Reef Fish Abundance.** Current Biology 19(7) pp. 590 – 595

Burkett, E.W., et al. 2009. **The Caye Caulker Research Initiative (CCRI): Annual Report.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant and permit requirement. Annual Report No. 8, 65 pg

Burkett, E.W., et al. 2008. **The Caye Caulker Research Initiative (CCRI): Annual Report.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant and permit requirement. Annual Report No. 7, 89 pg

Burkett, E.W., et al. 2007. **The Caye Caulker Research Initiative (CCRI): Annual Report.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant and permit requirement. Annual Report No. 6, 168 pg

- Burkett, E.W., et al. 2006. **The Caye Caulker Research Initiative (CCRI): Annual Report.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant and permit requirement. Annual Report No. 5, 90 pg
- Burkett, E.W. and Kerr, H. 2005. **The Importance of Disturbance Agents on the Coral Community of a Pristine Location.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant requirement. Annual Report No. 4, 9 pg
- Burkett, E.W., et al. 2005. **The Caye Caulker Research Initiative (CCRI): Phase III.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant requirement. Annual Report No. 3, 140 pg
- Burkett, E.W., et al. 2004. **The Caye Caulker Research Initiative (CCRI): Phase II.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant requirement. Annual Report No. 2, 153 pg
- Burkett, E.W., et al. 2003. **The Caye Caulker Research Initiative (CCRI): Phase I.** Written report submitted to the Coastal Zone Management Authority and the Belizean Fisheries Department as a grant requirement. Annual Report No. 1, 111 pg
- Burkett, E.W. 2000. **Disease Survey of the Coral Reefs of Cozumel, Mexico.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 23, 1-16 pg.
- Burkett, E.W. 2000. **Quantification of Community Structure of Paraiso Nearshore Fringe Reef.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 22, 1-12 pg.
- Burkett, E.W. 1999. **Quantification of Community Structure of Paraiso Nearshore Fringe Reef.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 21, 1-15 pg.
- Burkett, E.W. 1998. **Field Manual of Coral Reef Ecology.** 189 pg.
- Burkett, E.W. 1998. **An Anchor Damage Assessment of Cedar Pass Coral Reef.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 20, 1-8 pg.
- Burkett, E.W. and Markee, T. 1998. **Water Quality Assessment of the Marine National Park of Cozumel, Mexico.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 19, 1-20 pg.
- Burkett, E.W. 1998. **Quantification of Community Structure of Paraiso Nearshore Fringe Reef.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 18, 1-17 pg.
- Burkett, E.W. and Markee, T. 1997. **Heavy Metal Contamination of Marine Invertebrates.** Parque Marino Nacional "Arrecifes de Cozumel." Project Report No. 17, 1-6 pg.
- Burkett, E.W. 1997. **Environmental Science: A Teaching Resource** 150 pg.

- Burkett, E.W. 1997. **Quantification of Community Structure of Paraiso Nearshore Fringe Reef.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 16, 1-12 pg.
- Burkett, E.W. 1996. **Quantification of Community Structure of Paraiso Nearshore Fringe Reef.** Parque Marino Nacional "Arrecifes de Cozumel" Project Report No. 15, 1-26 pg.
- Burkett, E.W. 1990. **Differential roles of sexes in breeding Northern Flickers (*Colaptes auratus*).** Dissertation Abstracts 1-116 pg.

Presentations

- Burkett, E.W. 2009. **Monitoring Coral Reef Resources: Is it really necessary?** Forest and Marine Reserves Association of Caye Caulker (FAMRACC), Caye Caulker, Belize. January
- Burkett, E.W. 2008. **Coral Reef Resource Management: Policy, Enforcement, Monitoring, Research and Education.** Forest and Marine Reserves Association of Caye Caulker (FAMRACC), Caye Caulker, Belize. January
- Burkett, E.W. 2008. **Coral Reefs: Will They Survive?** Superior Rotary Club invited speaker. April
- Burkett, E.W. 2007. **Time series analysis of reef benthic communities within the boundaries of the Caye Caulker Marine Reserve.** Forest and Marine Reserves Association of Caye Caulker (FAMRACC), Caye Caulker, Belize. January
- Burkett, E.W. 2006. **Marine Protected Areas: Do they influence recovery of coral reef benthic communities.** Forest and Marine Reserves Association of Caye Caulker (FAMRACC), Caye Caulker, Belize. January
- Burkett, E.W. 2006. **Coral Reefs: Will they survive?** Vice Chancellors Symposium, University of Wisconsin-Superior. April
- Burkett, E.W. 2006. **Wonders of the Coral Reefs.** Maritime Museum. Duluth, Superior. Invited Speaker. May
- Burkett, E.W. 2006. **Caribbean Coral Reef Studies: Undergraduate Research at UWS.** University of Wisconsin-Superior Foundation. Invited Speaker. October
- Burkett, E.W. 2006. **The Current Status of Coral Reefs.** The Duluth-Superior Engineering Society. Invited Speaker. December
- Burkett, E.W. 2005. **Coral Reef Management Strategies: The Importance of Monitoring.** Forest and Marine Reserves Association of Caye Caulker (FAMRACC), Caye Caulker, Belize.
- Burkett, E.W. 2005. **Benthic Community Dynamics of the Patch Reefs of the Caye Caulker Marine Reserve.** 34rd Annual Marine Benthic Ecology Meeting, Williamsburg, Virginia.

- Kerr, H. and Burkett, E.W. 2005. **The Importance of Disturbance Agents on the Coral Community of a Pristine Location.** Western Society of Naturalists, Monterrey, California.
- Burkett, E.W. 1999. **The Influence of Disturbance on the Community Structure of Paraiso Nearshore Fringe Reef, Cozumel, Mexico.** PUMA International Coral Reef Conference, Cancun, Mexico. **(Invited international guest speaker)**
- Burkett, E.W. 1999. **The Influence of Anthropogenic Disturbance on the Community Structure of Coral Reefs.** Parque Marino Nacional "Arrecifes de Cozumel" Cozumel, Mexico.
- Burkett, E.W. 1998. **Coral Reefs: Diversity Threatened. Global Environmental Change Workshop.** Ashland, WI. **(Invited guest speaker)**
- Burkett, E.W. 1998. **Coral Reef Monitoring Programs: A Reef Health Management Technique.** National Park Resource Management Unit. Cozumel, Mexico.
- Burkett, E.W. 1997. **Elementary Education Science Curriculum Reform at UWS.** NASA Project NOVA, Washington, DC. **(Awarded Best Presentation)**
- Burkett, E.W. 1997. **The Coral Reefs of Cozumel Mexico: Human Impact Due to Pier Construction.** Duluth Engineering Association.
- Burkett, E.W. 1996. **The Coral Reefs of Cozumel Island, Mexico.** Keynote Speaker for the Wisconsin Society of Science Teachers.
- Burkett, E.W. 1993. **The Wonders of Coral Ecosystems.** Keynote Address, Elementary and Middle School Science Conference, Superior, Wisconsin.
- Duncan, S., et al. 1988. **Auditory Mimicry in a Cavity nesting bird.** Wilson Society National Meeting, Philadelphia, Pennsylvania. (with E. Burkett and C. Niemczyk)
- Burkett, E.W. 1988. **Differential roles of sexes in breeding Northern Flickers (*Colaptes auratus*).** Wilson Society, National Meeting, Philadelphia, Pennsylvania.
- Burkett, E.W. 1988. **The influence of weather on the hunting strategies, success rates and efficiencies of Wintering American Kestrels (*Falco sparverius*).** Wilson Society National Meeting, Philadelphia, Pennsylvania.
- Burkett, E.W. 1982. **The effect of weather conditions, habitat, and time of day on time allocation of wintering American Kestrels (*Falco sparverius*) in Indiana County Pennsylvania.** Animal Behavior Society Meeting, Pennsylvania.