

MARGARET (PEG) M. YACOBUCCI

Bowling Green State University
Department of Geology
School of Earth, Environment and Society
190 Overman Hall
Bowling Green, OH 43403-0211

Office: (419) 372-7982
Fax: (419) 372-7205
Email: mmyacob@bgsu.edu
Web: <http://personal.bgsu.edu/~mmyacob>

ACADEMIC DEGREES

Ph.D.	Harvard University, Earth and Planetary Sciences	1999
A.B.	University of Chicago, Geophysical Sciences	1991

ACADEMIC POSITIONS

Associate Professor	Bowling Green State University	2005-present
Assistant Professor	Bowling Green State University	1999-2005
Graduate Teaching Fellow	Harvard University	1992-1999

TEACHING EXPERIENCE

A. Bowling Green State University

1. Undergraduate Courses

GEOL 104	Earth Environments
GEOL 105	Life Through Time

2. Combined Undergraduate-Graduate Courses

GEOL 415/515	Paleontology
GEOL 480/580	Paleoecology
GEOL 480/580	Quantitative Paleontology
GEOL 480/580	Advanced Paleontology – Mass Extinctions
GEOL 480/670	Geology Colloquium
GEOL 493/494/693	Field Experience / Field Geology / Advanced Field Geology

3. Graduate Courses

GEOL 601	Teaching in the Geological Sciences
GEOL 631	Quantitative Paleontology
GEOL 633	Advanced Paleobiology – Paleoenvironments and Paleobiology
GEOL 633	Advanced Paleobiology – Evolutionary Radiations

4. Other Teaching

GEOL 490/498/499 Undergraduate Independent Studies / Research
Projects:

- Theropod Anatomy and Behavior
- Functional and Phylogenetic Constraints in the Evolution of Large Theropod Dinosaurs
- Vertebrate Paleontology and Informal Education
- Vertebrate Morphospace & Phylogeny
- SEM Study of Fossil Preservation
- Paleontological Collections Management
- Trilobite Paleontology
- Pennsylvanian Micromorph Fossils
- Permo-Triassic Mass Extinction
- Variation in Evolution
- Vertebrate Paleontology

HNRS 498/499/GEOL 490H Senior Honors Projects

- Biomechanics of Thescelosaur (Ornithischia) Feet
- Geochemistry of the Pennsylvanian Buckhorn Asphalt of Oklahoma
- Molluscan Taphonomy and Biogeochemistry of the Pennsylvanian Buckhorn Asphalt of Oklahoma
- Teaching Strategies and Learning Styles in Science Education in Early Childhood
- Lobster Morphospace
- The Geology and History of Pipestone, Minnesota
- Taphonomy of Small Vertebrates of the Pleistocene Sheriden Pit Site of Northwestern Ohio (Wyandot County)
- Paleontology and Stratigraphy of the Niobrara and Carlisle Formations, Southeastern Colorado
- Virtual Interactive Fossil Lab

Guest Lecturer for:

- HIED 734 Ethics and Values in College Teaching
- GEOL 680 Pedagogy
- BIOL 451 Evolution
- Upward Bound Program

BGeXperience Freshman Orientation Leader

Tapestries Summer Institute 2001

Scientist for week-long sessions on “Landforms” and “Environments” for 3rd and 4th grade teachers

Science Fest (for visiting high school students)

Developed and present hour-long activities in geology

Women in Math, Science, Engineering & Technology Program

Developed and present hour-long activities in geology and a session on science careers for junior high and high school girls

5. Thesis Students (Primary Advisor)

Randy Williams M.S., Geology, BGSU Expected December 2011
Morphological Evolution in Response to Environmental Change

Steven King M.S., Geology, BGSU August 2009
The Ability of Mosasaurs to Produce Unique Puncture Marks in Ammonite Shells

Jessica Lawrence M.S., Geology, BGSU December 2008
A Total Evidence Analysis of the Evolutionary History of the Thunnisaur
Ichthyosaurs

James Hayes M.S., Geology, BGSU August 2008
Evaluating the Impact of Animated Topographic Fly-throughs on Students'
Geographic Novelty Space During a Geology Field Trip

Christopher Klug M.S., Geology, BGSU December 2007
Analyzing Fossils and Isotopes to Investigate a Possible Permo-Triassic Boundary
Section, Bilk Creek Mountains, Humboldt County, Nevada

Marc Spencer M.S., Geology, BGSU December 2007
Implications of a Phylogenetic Analysis of the Stem-Based Clade Ornithischia
Within the Dinosaurian Monophyly

Richard MacKenzie M.S., Geology, BGSU December 2007
Exploring the Relationship Between Geographic Range and Origination and
Extinction Rates in Upper Cretaceous Ammonoids Using Geographic Information
Systems

Rituparna Bose M.S., Geology, BGSU December 2006
Epizoans on the Brachiopods from the Devonian Dundee Formation of Ohio

Christopher Wright M.S., Geology, BGSU December 2006
Paleoecological and Paleoenvironmental Analysis of the Middle Devonian Dundee
Formation at Whitehouse, Lucas County, Ohio

Justin Richardson M.S., Geology, BGSU August 2005
(co-advisor with James Evans)
Freshwater Carbonates: Is Fossil Preservation in Travertine Deposits Applicable to
Martian Research?

Michael Senglaub M.S., Geology, BGSU December 2004
 Paleoecology of the Lower Devonian Esopus and Carlisle Center Formations
 (Tristates Group) of New York State

Melanie Bergolc M.S., Geology, BGSU December 2004
 A Paleoenvironmental Analysis Using Fossil Insects in Late Quaternary Deposits in
 Indiana and Ohio

Lori Manship M.S., Geology, BGSU May 2003
 Pattern Matching: Implementing GIS Applications for Paleontological Classification
 of Ammonitic Sutures

Rita Obiozo M.S., Geology, BGSU May 2003
 (co-advisor with Norman Levine)
 Interpretation and Assessment of Two Reservoirs in the Niger Delta (Nsimbo Field),
 Nigeria JV Acreage, Using Sequence Stratigraphic and Structural Concepts

Karen Waggoner M.S., Geology, BGSU May 2003
 Systematics and Taphonomy of Middle Turonian (Upper Cretaceous) Ammonites of
 the Chispa Summit Formation of Trans-Pecos, Texas

6. Membership on Dissertation Committees

Graduate Faculty Representative for:

Anthony Onicha	Ph.D., Photochemical Sciences, BGSU	In progress
Kerry Brinkman	Ph.D., Biology, BGSU	2007
Solen Kinayyigit	Ph.D., Photochemical Sciences, BGSU	2007
Irina Pomestchenko	Ph.D., Photochemical Sciences, BGSU	2004

7. Membership on Thesis Committees

Kelsey Garner	M.S., Geology, BGSU	August 2008
Huidong Liu	M.S., Geology, BGSU	August 2008
David VanDeVelde	M.S., Geology, BGSU	December 2006
Kevin Diego	M.S., Earth, Ecological and Environmental Sciences, U. of Toledo	December 2003

8. Research Advisor for Undergraduates

Stephen Hendricks	B.S., Geology (Paleobiology), BGSU	2011
Matt Knauss	B.S., Geology (Paleobiology), BGSU	2009
Leigha King	B.S., Geology (Paleobiology), BGSU	2008-09
Shawn Wallace	B.S., Geology, BGSU	2008-09
Ben Linzmeier	B.S., Geology (Paleobiology), BGSU	2008-09

Elizabeth Ferrer	B.S., Geology (Paleobiology), BGSU	2008-09
Jennifer Powers	B.A., Education, BGSU	2007
James Verhoff	B.S., Geology (Paleobiology), BGSU	2006
Jane Darbyshire	B.S., Geology (Paleobiology), BGSU	2006
Laura Holm	B.S., Geology (Paleobiology), BGSU	2005
Ann Roos	B.A., History, BGSU	2005
Megan Seitz	B.S., Geology (Paleobiology), BGSU	2005
Jennifer VanFossen	B.S., Geology (Paleobiology), BGSU	2005
Paul Valdez	B.S., Geology (Paleobiology), BGSU	2004
Sharon Lewandowski	B.S., Geology (Paleobiology), BGSU	2003
Karen Koy	B.S., Geology (Paleobiology), BGSU	2001
Rob McAfee	B.S., Biology, BGSU	2000

B. Harvard University (1992-1999)

As a Teaching Fellow, I designed and led laboratory exercises, field trips, and discussion sessions; developed assignments; and wrote and graded exams for the following undergraduate courses:

- Science and Society in the 20th Century (one semester) General education history course
- Introduction to Geological Sciences (one semester) Course for Earth & Planetary Sciences majors
- The History of Life (six semesters, one as Head TF) General education science course
- The Changing Surface of the Earth (two semesters) General education science course
- Dynamics of the Earth (one semester) General education science course

PROFESSIONAL DEVELOPMENT

- Teaching Paleontology in the 21st Century Workshop and Field Trip (co-convener) Cutting Edge / National Science Foundation July-August 2009
- Core Commitments Leadership Consortium Summer Workshop (educating for personal and social responsibility) Association of American Colleges & Universities July 2008
- Core Commitments Leadership Consortium Summer Workshop (educating for personal and social responsibility) Association of American Colleges & Universities August 2007
- Core Commitments Leadership Consortium Launch Meeting (educating Association of American Colleges & March 2007

- for personal and social responsibility)
- Pedagogies of Engagement: Deepening Learning In and Across the Disciplines Universities Association of American Colleges & Universities April 2005
- Midwest Symposium for Student Paleontological Research U Wisconsin-Madison March 2004, April 2005
- Teaching Paleontology in the 21st Century: Bringing Fossils to Life in the Classroom Mellon Foundation, Smith College Dec. 2003
- Project Kaleidoscope / Faculty for the 21st Century Annual Assembly PKAL October 2007, October 2002
- Short Course "Conservation Paleobiology: Using the Past to Manage for the Future" Paleontological Society October 2009
- Short Course "From Evolution to Geobiology: Research Questions Driving Paleontology at the Start of a New Century" Paleontological Society October 2008
- Using the Paleobiology Database Workshop Paleontological Society April 2006
- Short Course on Paleobiogeography Paleontological Society October 2005
- Short Course on Neoproterozoic-Cambrian Biological Revolutions Paleontological Society Nov. 2004
- Short Course on Ostracode Sciences Paleontological Society Nov. 2003
- Short Course on Predation in the Fossil Record Paleontological Society October 2002
- Short Course on Brachiopods Paleontological Society Nov. 2001
- Short Course on Phanerozoic Terrestrial Ecosystems Paleontological Society Nov. 2000
- The Evolution-Creation Controversy Paleontological Society October 1999
- Active Learning and the Transition to Digital Faculty Learning Community BGSU 2009-2010
- Integrated Student Learning Workshop BGSU August 2009
- Learning 2.0 with Web 2.0 Tools Workshop BGSU CTL July 2009
- Using BGSU Blogs Workshop BGSU CTL June 2009
- COMPASS Faculty Learning Community BGSU 2007-2008
- Human Subjects Review Board Training BGSU February 2007
- Teaching Scientifically Faculty Learning Community BGSU 2006-2007

- Women's Leadership Initiative Conference BGSU May 2006
- BGeXperience Continuing Faculty Workshop BGSU May 2006
- Understanding Depression and Suicide Workshop BGSU Counseling Center Sept. 2005
- Blackboard Assessment Tools BGSU CTLT Dec. 2004
- Introduction to Blackboard BGSU CTLT October 2004
- Tenure and Promotion Workshop BGSU CTLT March 2004
- BGeXperience Orientation Training BGSU August 2003
- Confronting Homophobia in the Classroom Workshop BGSU August 2003
- BGeXperience Workshop BGSU May 2003, May 2006
- Small Class Initiative Workshop BGSU May 2003
- State of the State Conference (equity & diversity issues) BGSU's OEDIS March 2003, March 2004
- Students for Quality Education Conference BGSU/SQE February 2003
- Writing for Teaching and Learning Workshop BGSU February 2003
- Safe Zone training (GLBT advocacy) BGSU/Vision January & April 2003
- Performance-Based Assessment Workshop BGSU February 2001
- What Can a Faculty Member Expect (and not Expect) from a Student Who Has Taken English 112? BGSU Nov. 1999
- Teaching Conference for Pre-Tenured Faculty BGSU Nov. 1999
- Teaching Large Classes BGSU Sept. 1999
- Sexual Harassment in Academia Discussion BGSU Sept. 1999
- Teaching Orientation for New Faculty BGSU August 1999

ACADEMIC ADVISING

Department Graduate Coordinator January 2007 – June 2008, January –June 2010

RESEARCH INTERESTS

Invertebrate Paleontology and Paleobiology:

- Evolution of fossil cephalopods
- Macroevolutionary dynamics of rapid evolutionary diversifications
- Morphometric and cladistic techniques
- Interplay of environmental change and evolutionary events
- Use of Geographic Information Systems (GIS) in paleobiology

RESEARCH PROJECTS AND GRANTS

Projects Undertaken at Bowling Green State University:

- GIS-Based Paleobiogeography of Cretaceous Ammonoids
- Diversity Dynamics in Jurassic-Cretaceous Ammonoids
- GIS Approaches to Analyzing Ammonoid Suture Patterns
- Origin, Evolution, and Developmental Timing of the Cenomanian Ammonite *Metoicoceras*
- Morphological Variability and Speciation in the Mid-Cretaceous Ammonite *Neogastrolites* from the Mowry Shale of Wyoming and Montana.
- Constraints on Shell Shape in Acanthoceratid Ammonites from the Cenomanian-Turonian Western Interior Seaway of North America.

Grants:

1. Received

BGSU	FRC Travel Grants	2009	\$252
	P.I.: M. M Yacobucci	2000	\$400
Paleontological Society	Grant-in-Aid for field work	1994	\$500
	P.I.: M. M Yacobucci		

2. Proposals in Preparation

National Science Foundation (Division of Environmental Biology)	Collaborative Research: Assembling the Cephalopod Tree of Life (ACToL) Lead P.I.: M. M Yacobucci (Resubmitted March 2010)	2010	\$2,992,447 total, \$430,018 to BGSU over 5 years
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3. Applied For, Not Received

National Science Foundation (Division of Environmental Biology)	Collaborative Research: Assembling the Cephalopod Tree of Life (ACToL)	2009	\$2,998,784 total, \$416,349
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	Lead P.I.: M. M Yacobucci		to BGSU over 5 years
Petroleum Research Fund, American Chemical Society (Type GB Research Grant)	Paleoecology of the Middle Cretaceous Mowry Sea of North America: Timing, Source, and Effects of Immigrants into the Fauna P.I.: M. M Yacobucci	2001	\$35,000
National Science Foundation (Geoscience Education)	The Virtual Interactive Fossil Lab (VIFL): A Web-Based Educational Resource for Geoscience P.I.: M. M Yacobucci	2000	\$76,226

PUBLICATIONS

A. Dissertation

Yacobucci, Margaret M. 1999. The Evolutionary Radiation of Acanthoceratid Ammonites in the Cenomanian Western Interior Seaway of North America. Unpublished Ph.D. Dissertation, Harvard University, Cambridge, MA.

B. Peer-Reviewed Journal Articles and Book Chapters

Yacobucci, Margaret M. (in prep.) Integrating critical thinking about values into an introductory geology course. To be submitted to Journal of Geoscience Education.

Yacobucci, Margaret M. (in prep.) Origin, evolution, and developmental timing of the Cenomanian ammonite *Metoicoceras*. To be submitted to Paleobiology.

Yacobucci, Margaret M., and Manship, Lori. (in revision, 2010.) Putting ammonites on the map: GIS mapping of constraints and asymmetry in ammonite suture shape. Submitted to Palaeontologia Electronica.

Bose, Rituparna, Schneider, Chris, Polly, P. David, and **Yacobucci, Margaret M.** 2010. Ecological interactions between *Rhipidomella* (Orthides, Brachiopoda) and its endoskeleton bionts and predators from the Middle Devonian Dundee Formation of Ohio, United States. Palaios 25(3): 196-208.

Niko, Shuji, Mapes, Royal H., and **Yacobucci, Margaret M.** 2009. *Arcuatoceras*, a new genus of nautiloid cephalopods from the Early Carboniferous in the Midcontinent of North

America. Paleontological Research (Quarterly Journal of the Palaeontological Society of Japan) 13(4): 319-325.

Yacobucci, Margaret M. 2009. The Tree of Life: Stephen Jay Gould's contributions to systematics. Pp. 291-311 in: Warren D. Allmon, Patricia H. Kelley, and Robert M. Ross, eds. Stephen Jay Gould: Reflections on His View of Life. Oxford: Oxford University Press.

Yacobucci, Margaret M. 2005. Multifractal and white noise evolutionary dynamics in Jurassic-Cretaceous Ammonoidea. Geology 33(2): 97-100.

Yacobucci, Margaret M. 2004. *Neogastrolites* meets *Metengonoceras*: Morphological response of an endemic hoplitid ammonite to a new invader in the Middle Cretaceous Mowry Sea. Cretaceous Research 25(6): 927-944.

Yacobucci, Margaret M. 2004. Buckman's paradox: Constraints on ammonoid ornament and shell shape. Lethaia 37(1): 59-71.

Yacobucci, Margaret M. 2003. Controls on shell shape in acanthoceratid ammonites from the Cenomanian-Turonian Western Interior Seaway of North America. Pp. 195-226 in: P. Harries and D. H. Geary, eds. High-Resolution Approaches in Stratigraphic Paleontology. Topics in Geobiology Vol. 21. New York: Plenum Press.

Yacobucci, Margaret M. 1999. Plasticity of developmental timing as the underlying cause of high speciation rates in ammonoids: An example from the Cenomanian Western Interior Seaway of North America. Pp. 59-76 in: F. Olóriz and F. J. Rodríguez-Tovar, eds. Advancing Research in Living and Fossil Cephalopods, Proceedings, IV International Symposium Cephalopods—Present and Past, Granada, Spain, July 15-17, 1996. New York: Plenum Press.

C. Published Book Reviews

Yacobucci, Margaret M. 2007. Same As It Ever Was: A Review of Petto and Godfrey's *Scientists Confront Intelligent Design and Creationism*. American Paleontologist 15(4): 36-37.

Yacobucci, Margaret M. 2004. Review of "Ammonites" by Neale Monks and Philip Palmer. Palaios 19(1): 105-106.

D. Peer Reviewed Abstracts

Linzmeier, Benjamin J., Wallace, Shawn W., Farver, John R., **Yacobucci, Margaret M.**, and Mapes, Royal H. 2009. Mapping diagenetic calcite vs. original aragonite in

orthoconic nautiloids of the Buckhorn Asphalt (Middle Pennsylvanian) of Oklahoma. GSA Abstracts with Programs 41(6).

Yacobucci, Margaret M., Lockwood, Rowan, Tewksbury, Barbara J., MacFadden, Bruce J., and Allmon, Warren D. 2009. Teaching paleontology in the 21st century: Resources for teaching paleontology at the undergraduate level. GSA Abstracts with Programs 41(6).

Yacobucci, Margaret M. 2009. Civic engagement for the 21st century paleontology student. North American Paleontological Convention Program and Abstracts, PaleoBios.

Bose, Rituparna, Schneider, Chris L., Polly, David P., and **Yacobucci, Margaret M.** 2009. Synecological interactions of the brachiopod *Rhipidomella* from the Middle Devonian Dundee Formation of Ohio, USA. North American Paleontological Convention Program and Abstracts, PaleoBios.

Yacobucci, Margaret M., and MacKenzie, Richard A. III. 2008. Ammonoid paleobiogeography in the Cenomanian Western Interior Seaway. GSA Abstracts with Programs 40(6).

MacKenzie, Richard A. III and **Yacobucci, Margaret M.** 2008. Exploring Minimum Geographic Ranges and Diversity Dynamics of Western Interior Ammonoids (Late Cretaceous) Using Geographic Information Systems (GIS), Paleogis, Spreadsheets and Recreational Topographic Mapping Software. AAPG/SEPM Annual Convention, April 2008, San Antonio, TX.

Yacobucci, Margaret M., and MacKenzie, Richard A. III. 2007. Moving on up: Latitudinal diversity patterns of ammonoids within the Cretaceous Western Interior Seaway of North America. GSA Abstracts with Programs 39(6).

Yacobucci, Margaret M., and MacKenzie, Richard A. III. 2007. Applications of a new GIS database of cephalopod occurrences in the Cretaceous Western Interior Seaway of North America: The Cenomanian-Turonian Ocean Anoxic Event (OAE2), sea level rise, and ammonoid turnover. Seventh International Symposium, Cephalopods—Present and Past, Abstracts.

MacKenzie, Richard A. III and **Yacobucci, Margaret M.** 2007. Using GIS, topographic software, and simple EXCEL spreadsheets to explore geographic range of Western Interior Upper Cretaceous ammonoids. Seventh International Symposium, Cephalopods—Present and Past, Abstracts.

Klug, Christopher, and **Yacobucci, Margaret M.** 2007. Relationship of the Early Permian Bilk Creek Formation (Black Rock Terrane) to other Early Permian terranes along the

western and northwestern margin of Pangea based on brachiopod biogeography. GSA Abstracts with Programs 39(3).

Yacobucci, Margaret M. 2006. Dressing up for the dance: Patterns of suture variation in sexual dimorphs of Lower Toarcian hildoceratine ammonites. GSA Abstracts with Programs 38(7).

Klug, Christopher, **Yacobucci, Margaret M.**, and Mathews, Josh. 2006. Early Permian-Early Triassic benthic community structure of the Bilk Creek Mountains, Humboldt County, Northwestern Nevada. GSA Abstracts with Programs 38(7).

Yacobucci, Margaret M. 2006. Ontogenetic variability in the Early Cenomanian hoplitid ammonite *Neogastrolites* from the Western Interior's Mowry Shale. Proceedings, Symposium on the Paleontology, Geology, and Stratigraphy of the Western Interior Late Cretaceous Seaway. A Tribute to the Life of W. A. "Bill" Cobban.

Yacobucci, Margaret M. 2006. "The hidden bond of connexion": Common descent as an obstacle to teaching evolution to college undergraduates. North Central GSA, Abstracts with Programs 38(4).

Bose, Rituparna, **Yacobucci, Margaret M.**, and Wright, Christopher E. 2006. Epibionts on the Brachiopods from the Devonian Dundee Formation of Ohio. North Central GSA, Abstracts with Programs 38(4).

Wright, Christopher E., **Yacobucci, Margaret M.**, and VanDeVelde, David M. 2006. Paleocological and Paleoenvironmental analysis of the Middle Devonian Dundee Formation at Whitehouse, Lucas County, Ohio. North Central GSA, Abstracts with Programs 38(4).

Yacobucci, Margaret M. 2005. How do those crinkles form?: Suture variations in the extremely plastic Cretaceous ammonite *Neogastrolites* and processes of septal formation. GSA Abstracts with Programs 37(7): 87.

Yacobucci, Margaret M. 2005. Breaking the law: Covariations (and lack thereof) between suture patterns and shell shape in the Cretaceous ammonite *Neogastrolites*. North American Paleontology Convention Programme and Abstracts, PaleoBios 25 (supplement to no. 2): 123-124.

Yacobucci, Margaret M. 2004. "I'm a scientist, not a politician!": How to integrate critical thinking about values into a general education geology course (& why you should). GSA Abstracts with Programs 36(5): 518.

- Senglaub, Michael, and **Yacobucci, Margaret M.** 2004. *Zoophycos* size as a key to paleoenvironment in the Lower Devonian Carlisle Center Formation of New York State. GSA Abstracts with Programs 36(5): 59.
- Richardson, Justin R., Evans, James E., and **Yacobucci, Margaret M.** 2004. Assessing the preservation potential of biogenic features in pre-Quaternary tufas and travertines—Applications to exobiology. GSA Abstracts with Programs 36(5): 475.
- Yacobucci, Margaret M.**, and Manship, Lori. 2004. GIS analysis of sutural constraints and asymmetry in ammonoids: Testing the tie-point model for septal formation. Sixth International Symposium, Cephalopods—Present and Past, Fayetteville, Arkansas, September 16-19, 2004.
- Yacobucci, Margaret M.** 2003. The Tree of Life: Stephen Jay Gould's contributions to systematics. GSA Abstracts with Programs 34(7): A-32.
- Yacobucci, Margaret M.**, and Manship, Lori. 2003. Putting ammonites on the map: GIS mapping of constraints and asymmetry in ammonite suture shape. GSA Abstracts with Programs 34(7): A-317-318.
- Yacobucci, Margaret M.** 2002. Ammonoids are taxa too: Diversity dynamics in Jurassic-Cretaceous ammonoids and why scale matters. GSA Abstracts with Programs 34(6): A-361.
- Koy, Karen, and **Yacobucci, Margaret M.** 2001. Terror in miniature: Trophic interactions in a shelly fauna of the Pennsylvanian of southern Ohio. GSA Abstracts with Programs 33(6): A-14.
- Yacobucci, Margaret M.** 2001. Phylogenetic patterns and developmental timing in the Cenomanian acanthoceratid ammonite *Metoicoceras*. PaleoBios 21(supplement to No. 2): 136.
- Yacobucci, Margaret M.** 2000. *Neogastropilites* meets *Metengonoceras*: Morphological response of an endemic hoplitid ammonite to a new invader in the Middle Cretaceous Mowry Sea. GSA Abstracts with Programs 32(7): A-371.
- Yacobucci, Margaret M.** 1999. Buckman's paradox: Constraints on ammonoid ornament and shell shape. Abstracts, Fifth International Symposium, Cephalopods—Present and Past, Vienna, Austria. Berichte der Geologischen Bundesanstalt 46: 124.
- Yacobucci, Margaret M.** 1998. Sea level versus taxon sorting as a control on shell shape in acanthoceratid ammonites from the Cenomanian-Turonian Western Interior Seaway. GSA Abstracts with Programs 30(7): A-93.

- Yacobucci, Margaret M.** 1997. Ontogenetic variability of rib characters in acanthoceratid ammonites from the Cenomanian Western Interior Seaway. GSA Abstracts with Programs 29(6): A-343.
- Yacobucci, Margaret M.** 1996. Trends in morphological variability among acanthoceratid ammonites from the Cenomanian Western Interior Seaway. GSA Abstracts with Programs 28(7): A-292.
- Yacobucci, Margaret M.** 1995. Do Cenomanian acanthoceratid ammonites from the Western Interior represent a species flock? A critique of the cladistic emphasis on linear evolution. GSA Abstracts with Programs 27(6): A-115.
- Yacobucci, Margaret M.** 1994. Hydrodynamics and shell shape variation of Upper Cretaceous acanthoceratid ammonites from the Powder River Basin, Central Western Interior. GSA Abstracts with Programs 26(7): A-58.
- Yacobucci, Margaret M.** 1990. Phylogeny and biogeography of Ornithomimisauria (Theropoda: Saurischia). Journal of Vertebrate Paleontology 10 (supplement to No. 3): 51A.

PROFESSIONAL SOCIETY AND OTHER PRESENTATIONS

A. Presentations to Professional Societies

- Yacobucci, Margaret M.,** Lockwood, Rowan, Tewksbury, Barbara J., MacFadden, Bruce J., and Allmon, Warren D. 2009. Teaching paleontology in the 21st century: Resources for teaching paleontology at the undergraduate level. Geological Society of America Annual Meeting, Oct. 2009, Portland, OR.
- Yacobucci, Margaret M.** 2009. Civic engagement for the 21st century paleontology student. North American Paleontological Convention, June 2009, Cincinnati, OH.
- Yacobucci, Margaret M.,** and MacKenzie, Richard A. III. 2008. Ammonoid paleobiogeography in the Cenomanian Western Interior Seaway. Geological Society of America Annual Meeting, Oct. 2008, Houston, TX.
- MacKenzie, Richard A. III and **Yacobucci, Margaret M.** 2008. Exploring Minimum Geographic Ranges and Diversity Dynamics of Western Interior Ammonoids (Late Cretaceous) Using Geographic Information Systems (GIS), Paleogis, Spreadsheets and Recreational Topographic Mapping Software. AAPG/SEPM Annual Convention, April 2008, San Antonio, TX.

- Yacobucci, Margaret M.**, and MacKenzie, Richard A. III. 2007. Moving on up: Latitudinal diversity patterns of ammonoids within the Cretaceous Western Interior Seaway of North America. Geological Society of America Annual Meeting, Oct. 2007, Denver, CO.
- Yacobucci, Margaret M.**, and MacKenzie, Richard A. III. 2007. Applications of a new GIS database of cephalopod occurrences in the Cretaceous Western Interior Seaway of North America: The Cenomanian-Turonian Ocean Anoxic Event (OAE2), sea level rise, and ammonoid turnover. Seventh International Symposium, Cephalopods—Present and Past, September 14-16, 2007, Sapporo, Hokkaido, Japan.
- MacKenzie, Richard A. III and **Yacobucci, Margaret M.** 2007. Using GIS, topographic software, and simple EXCEL spreadsheets to explore geographic range of Western Interior Upper Cretaceous ammonoids. Seventh International Symposium, Cephalopods—Present and Past, September 14-16, 2007, Sapporo, Hokkaido, Japan.
- Klug, Christopher, and **Yacobucci, Margaret M.** 2007. Relationship of the Early Permian Bilk Creek Formation (Black Rock Terrane) to other Early Permian terranes along the western and northwestern margin of Pangea based on brachiopod biogeography. Geological Society of America South Central / North-Central Joint Section Meeting, April 2007, Lawrence, KS.
- Yacobucci, Margaret M.** 2006. Dressing up for the dance: Patterns of suture variation in sexual dimorphs of Lower Toarcian hildoceratine ammonites. Geological Society of America Annual Meeting, Oct. 2006, Philadelphia, PA.
- Klug, Christopher, **Yacobucci, Margaret M.**, and Mathews, Josh. 2006. Early Permian-Early Triassic benthic community structure of the Bilk Creek Mountains, Humboldt County, Northwestern Nevada. Geological Society of America Annual Meeting, Oct. 2006, Philadelphia, PA.
- Yacobucci, Margaret M.** 2006. Ontogenetic variability in the Early Cenomanian hoplitid ammonite *Neogastrolites* from the Western Interior's Mowry Shale. Proceedings, Symposium on the Paleontology, Geology, and Stratigraphy of the Western Interior Late Cretaceous Seaway. A Tribute to the Life of W. A. "Bill" Cobban. August 26-27, 2006, Golden, CO.
- Yacobucci, Margaret M.** 2006. "The hidden bond of connexion": Common descent as an obstacle to teaching evolution to college undergraduates. Geological Society of America North-Central Section Meeting, April 2006, Akron, OH.

- Bose, Rituparna, **Yacobucci, Margaret M.**, and Wright, Christopher E. 2006. Epibionts on the Brachiopods from the Devonian Dundee Formation of Ohio. Geological Society of America North-Central Section Meeting, April 2006, Akron, OH.
- Wright, Christopher E., **Yacobucci, Margaret M.**, and VanDeVelde, David M. 2006. Paleocological and Paleoenvironmental analysis of the Middle Devonian Dundee Formation at Whitehouse, Lucas County, Ohio. Geological Society of America North-Central Section Meeting, April 2006, Akron, OH.
- Yacobucci, Margaret M.** 2005. How do those crinkles form?: Suture variations in the extremely plastic Cretaceous ammonite *Neogastropilites* and processes of septal formation. Geological Society of America Annual Meeting, Oct. 2005, Salt Lake City, UT.
- Yacobucci, Margaret M.** 2005. Breaking the law: Covariations (and lack thereof) between suture patterns and shell shape in the Cretaceous ammonite *Neogastropilites*. North American Paleontology Convention Programme and Abstracts, June 2005, Halifax, Nova Scotia.
- Strange, Carney, **Yacobucci, Margaret M.** and Dzur, Albert. 2005. Critical Thinking About Values: A Unifying Theme In and Out of the Classroom. Association of American Colleges and Universities, April 2005, Bethesda, MD.
- Yacobucci, Margaret M.** 2004. "I'm a scientist, not a politician!": How to integrate critical thinking about values into a general education geology course (& why you should). Geological Society of America Annual Meeting, Nov. 2004, Denver, CO.
- Senglaub, Michael, and **Yacobucci, Margaret M.** 2004. *Zoophycos* size as a key to paleoenvironment in the Lower Devonian Carlisle Center Formation of New York State. Geological Society of America Annual Meeting, Nov. 2004, Denver, CO.
- Richardson, Justin R., Evans, James E., and **Yacobucci, Margaret M.** 2004. Assessing the preservation potential of biogenic features in pre-Quaternary tufas and travertines—Applications to exobiology. Geological Society of America Annual Meeting, Nov. 2004, Denver, CO.
- Yacobucci, Margaret M.**, and Manship, Lori. 2004. GIS analysis of sutural constraints and asymmetry in ammonoids: Testing the tie-point model for septal formation. Sixth International Symposium, Cephalopods—Present and Past, Fayetteville, Arkansas.
- Yacobucci, Margaret M.** 2003. The Tree of Life: Stephen Jay Gould's contributions to systematics. Invited speaker, Pardee Symposium "His View of Life: Reflections on

- the Scientific Legacy of Stephen J. Gould," Geological Society of America Annual Meeting, Seattle, WA.
- Yacobucci, Margaret M.**, and Manship, Lori. 2003. Putting ammonites on the map: GIS mapping of constraints and asymmetry in ammonite suture shape. Geological Society of America Annual Meeting, Seattle, WA.
- Yacobucci, Margaret M.** 2002. Ammonoids are taxa too: Diversity dynamics in Jurassic-Cretaceous ammonoids and why scale matters. Geological Society of America Annual Meeting, Denver, CO.
- Koy, Karen, and **Yacobucci, Margaret M.** 2001. Terror in miniature: Trophic interactions in a shelly fauna of the Pennsylvanian of southern Ohio. Geological Society of America Annual Meeting, Boston, MA.
- Yacobucci, Margaret M.** 2001. Phylogenetic patterns and developmental timing in the Cenomanian acanthoceratid ammonite *Metoicoceras*. North American Paleontological Convention Meeting, Berkeley, CA.
- Yacobucci, Margaret M.** 2000. *Neogastropilites* meets *Metengonoceras*: Morphological response of an endemic hoplitid ammonite to a new invader in the Middle Cretaceous Mowry Sea. Geological Society of America Annual Meeting, Reno, NV.
- Yacobucci, Margaret M.** 1999. Buckman's paradox: Constraints on ammonoid ornament and shell shape. Fifth International Symposium, Cephalopods—Present and Past, Vienna, Austria.
- Yacobucci, Margaret M.** 1998. Sea level versus taxon sorting as a control on shell shape in acanthoceratid ammonites from the Cenomanian-Turonian Western Interior Seaway. Geological Society of America Annual Meeting, Toronto, Ontario, Canada.
- Yacobucci, Margaret M.** 1997. Ontogenetic variability of rib characters in acanthoceratid ammonites from the Cenomanian Western Interior Seaway. Geological Society of America Annual Meeting, Salt Lake City, UT.
- Yacobucci, Margaret M.** 1996. Plasticity of developmental timing as the underlying cause of high speciation rates in ammonoids: An example from the Cenomanian Western Interior Seaway of North America. IV International Symposium, Cephalopods—Present and Past, Granada, Spain.
- Yacobucci, Margaret M.** 1996. Trends in morphological variability among acanthoceratid ammonites from the Cenomanian Western Interior Seaway. Geological Society of America Annual Meeting, Denver, CO.

Yacobucci, Margaret M. 1995. Do Cenomanian acanthoceratid ammonites from the Western Interior represent a species flock? A critique of the cladistic emphasis on linear evolution. Geological Society of America Annual Meeting, New Orleans, LA.

Yacobucci, Margaret M. 1994. Hydrodynamics and shell shape variation of Upper Cretaceous acanthoceratid ammonites from the Powder River Basin, Central Western Interior. Geological Society of America Annual Meeting, Seattle, WA.

Yacobucci, Margaret M. 1990. Phylogeny and biogeography of Ornithomimisauria (Theropoda: Saurischia). Society of Vertebrate Paleontology Annual Meeting, Lawrence, KS.

B. Invited Lectures

Kent State University	2009
University of Iowa	2008
University of Illinois-Chicago	2008
Oberlin College	2008
College of Wooster	2007
Michigan State University	2006
University of Akron	2003
University of Cincinnati	2003
Richland Lithic and Lapidary Society	2002
Indiana University	2001
BGSU Center for Biomolecular Sciences	2001
Miami University of Ohio	2001
North Coast Fossil Club	2000, 2004
The Ohio State University	2000, 2005
Ohio University	2000
BGSU Biology Department	2000

SERVICE

A. Department

Formal Positions:

- Honors and Awards Committee 2009-
- Faculty Advisor, Geology Club 2007-
- Promotion and Tenure Committee 2007-
- Graduate Coordinator 2007-2008, Spring 2010
- Facilities, Equipment, Space, and Advisory Committee 2005-2008
- Department Library Liaison 2000-2008
- Mayfield Lectureship Organizer 2003-2007

- Merit Policy Revision Committee 2005-2006
- Assessment Committee 2000-2003
- Colloquium Organizer 2002-2003
- Merit Committee 2001-2003, 2005-2008
- Faculty Search Committee (Chair) 2001-2002
- Faculty Search Committee (Chair) 2000-2001

Other Service:

- Organize social and educational events for paleobiology and other interested students, including field trips to Cleveland Museum of Natural History, Field Museum of Natural History, and Sylvania's Fossil Fest Ongoing
- Conducting survey of department's fossil collections with student assistance; collections now listed in International Paleontological Association's Directory of Fossil Collections of the World Ongoing
- Prepared (with students) exhibit on geologic and fossil history of northwest Ohio for Wood County Historical Museum Spring 2009
- Staffed department table at BGSU Preview Days Fall 1999, 2001-2007
- Prepared (with students) display for Toledo Gem and Rockhound Club Show September 2001, 2006
- Acquired donated collection of fossils and minerals from Mr. Hugh A. Kirk of Toledo Spring 2000
- Redesigned department course evaluation form Spring 2000

B. College

Formal Positions:

- College Grade Appeal Board member 2006
- Life in Extreme Environments Search Committee 2006
- Arts and Sciences Council 2005-2008
- BGeXperience Faculty Advisory Committee 2004-2007
- Participant, College of Arts & Sciences Faculty Focus Group - Engaging Freshman Academically 2/16/01

C. University

Formal Positions:

- Faculty Research Committee 2009-
- Graduate College Representative, Ph.D. committee for Anthony Onicha, Photochemical Sciences 2007-
- Institutional Team Member, Leadership Consortium in Core Commitments: Educating Students for Personal and Social 2007-2008

- Responsibility (AAC&U)
- University Work Group (Master Plan Task Force) 2007
 - President's Advisory Council 2005-2007
 - Graduate College Representative, Ph.D. committee for Kerry Brinkman, Biology 2005-2007
 - Faculty Personnel and Conciliation Hearing Board Member 2005
 - Human Relations Commission (Vice-Chair 2005; Chair 2006-2007) 2004-2007
 - Senate Committee on Committees (Chair, 2005-2007) 2004-2007
 - BGeXperience Director's Search Committee 2004-2005
 - Ad-Hoc Committee on the Science Library 2003-2007
 - Faculty Senate 2002-2005, 2005-2008
 - University Committee on University Perspectives for General Studies Writing 2002
 - Institutional Team Member, Project Kaleidoscope 2002-
 - University Equal Opportunity Compliance Committee (Chair, 2002-) 2001-2004
 - Graduate College Representative, Ph.D. committee for Irina Pomestchenko and Solen Kinayyigit, Photochemical Sciences 2001-2007
 - Faculty Advisor, Amnesty International 2000-
 - University Library Advisory Committee 1999-2000
 - University Review Panel for Great Ideas (Arts & Sciences 250) 1999-2000

Other Service:

- Developer and Presenter for Women in Math, Science, Engineering & Technology program 11/6/09
- Presenter, "History of Women in Science at BGSU", Women's Research Network 3/21/08
- Presenter, "Longer Term Climate Change", Focus the Nation Day 1/31/08
- Panelist, "Developing a Research Agenda", Graduate Student Professional Development Day 1/27/07, 2/2/08
- Women's Leadership Initiative 2006-2007
- Developer and Presenter, Science Fest activities for high school students March 2006, Dec 2009
- Peer facilitator, BGeXperience Faculty Workshops May 2004, August 2005
- Panelist, Collegiate Leadership Development Program 2/19/04
- Panelist, "Affirmative Action in Higher Education Admissions Practices," Social Justice Task Force 3/25/03
- Speaker, "Defending the Promise of Brown," march and rally 2/7/03
- Speaker, Forum on Hate Crimes, sponsored by Vision (GLBT student organization) 11/19/02
- Presenter, "Tips for Publishing", 1st Annual Research Conference 11/8/02

- Presenter, Freshman Honors Orientation 8/24/02
- Presenter, Upward Bound Program 7/19/02
- Prepared materials and presentation for (cancelled) General Education Forum 4/17/01
- Presenter for Women in Math, Science, Engineering & Technology program 2/23/01, 11/11/02, 2/29/08
- Discussion leader, Incoming Freshman Book Project, Chapman Learning Center 8/27/00
- Provided materials for meeting "Dialogue Among the Disciplines: A Discussion of Various Writing-across-the-curriculum Program Models, and BGSU's Needs" Spring 2000

D. Professional

- Paleontological Society Committee on Nominations 2010-2013
- Session leader for hands-on activity on fossils for 3rd grade teachers, NWO TEAMS summer institute 2009
- Organizing Committee, North American Paleontological Convention 2008-2009
- Co-convener, Cutting Edge workshop "Teaching Paleontology in the 21st Century" 2008-2009
- Scientific Committee member, Seventh International Symposium – Cephalopods Present & Past, Sapporo, Japan 2007
- Elected President, Friends of the Cephalopods 2006-
- Elected Councilor-at-Large, Paleontological Society 2006-2008
- Joint Technical Program Committee, GSA & Paleo. Society 2006-2007
- Member, Paleontological Society / National Science Foundation Future Research Directions in Paleontology Working Group 2005-2007
- Scientific Committee member, Sixth International Symposium – Cephalopods Present & Past, Fayetteville, Arkansas 2004
- National Science Foundation grant proposal reviewer 2003, 2004, 2007, 2009
- National Geographic Society grant proposal reviewer 2008
- Manuscript reviewer
 - Malacologia* 2009
 - American Museum of Natural History Novitates* 2009
 - International Year of Planet Earth's 'life theme' volume* 2009
 - Journal of Paleontology* 2008
 - Proceedings, 7th International Symposium, Cephalopods-Past and Present* 2008
 - Rocky Mountain Geology* 2007
 - Journal of Shellfish Research* 2006
 - Paläontologische Zeitschrift* 2006
 - Proceedings, 6th International Symposium, Cephalopods-Past and Present* 2005

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| <i>Cladistics</i> | 2005 |
| <i>Lethaia</i> | 2004, 2006, 2007 |
| <i>Palaaios</i> | 2003, 2005, 2009 |
| <i>Paleobiology</i> | 2002, 2005, 2006 |
| • Book reviewer | |
| Monks and Palmer, <i>Ammonites</i> , Smithsonian Institution | 2003 |
| Kemp, <i>Fossils and Evolution</i> , Oxford University Press | 2002 |
| Stanley, <i>Earth System History</i> , 2 nd ed., W.H. Freeman | 2001, 2003 |
| • Textbook proposal reviewer | |
| Brett and Allison, <i>Marine Paleoenvironments and Paleooceanography</i> , Blackwell Science | 2004 |
| Milson and Rigby, <i>Practical Palaeontology</i> , Blackwell Science | 2000 |
| • Advertisement reviewer | |
| Jeep ad, FCB Worldwide advertising agency | 2000 |
| • Nominated for Geological Society of America's Committee on Minorities and Women in the Geosciences | 2003 |
| • Nominated for Councilor-at-Large (Under 40), Paleontological Society | 2003 |
| • Member, Paleontological Society's Strimple Award Committee | 2001-2003 |
| • Member, Project Kaleidoscope Faculty for the 21 st Century | June 2002- |
| • Guest, WBGU's "Inside Schools" television program (discussion of evolution vs. intelligent design in Ohio science standards) | March 2002 |
| • Tapestries Summer Institute, scientist-participant | Summer 2001 |
| • Hosted Perrysburg High School student for "job shadowing" day | December 2002 |
| • Completed career questionnaires for students at West Elementary School, Napoleon, Ohio | February 2000 |
| • Responded to several email and walk-in requests by community members for fossil identification and explanation | Ongoing |

PROFESSIONAL ORGANIZATION MEMBERSHIPS

Paleontological Society	1992-present
Geological Society of America	1992-present
Society for Sedimentary Geology	1992-present
Association for Women Geoscientists	1993-present
National Association of Geoscience Teachers	2002-present
Project Kaleidoscope Faculty for the 21 st Century	2002-present
Sigma Xi	2004-present

HONORS AND AWARDS

Elected Councilor-at-Large, Paleontological Society	2006
Awarded BGSU Distinguished Service Award – BGeXperience	2006

- Invited speaker, Pardee Symposium, "His View of Life: Reflections on the Scientific Legacy of Stephen J. Gould," Geological Society of America Annual Meeting 2003
- Nominated for Geological Society of America's Committee on Minorities and Women in the Geosciences 2003
- Nominated for Outstanding Contributor to Graduate Education Award, BGSU Graduate Student Senate 2003
- Received Certificate of Distinction in Teaching, Harvard University 1994, 1996, 1997, 1998

Revised April 1, 2010