

CHRISTOPHER A. McROBERTS
Curriculum Vitae

ADDRESS

Geology Department
State University of New York at Cortland
P.O. Box 2000
Cortland, New York, 13045 USA
Tel: +1 (607) 753-2925
Fax: +1 (607) 753-4973
E-mail: christopher.mcroberts@cortland.edu

Education

Ph.D. in Geology, December, 1994. Syracuse University. Dissertation Title: Selective Extinction of Bivalves and Ecostratigraphy across the Triassic-Jurassic Boundary in the Lombardian Alps, Italy.
M.S. in Geology, June 1990. University of Montana. Thesis Title: Systematic Paleontology, Biostratigraphy, and Paleoecology of Halobiid Bivalves from the Upper Triassic Martin Bridge Formation, Wallowa Terrane, Oregon.
B.S. in Geology, May, 1987. University of Wyoming.

ACADEMIC POSITIONS

Distinguished Professor. Geology Department, State University of New York at Cortland (2014-)
Professor. Geology Department, State University of New York at Cortland (2006-2014)
Associate Professor. Geology Department, State University of New York at Cortland (2003-2006)
Assistant Professor. Geology Department, State University of New York at Cortland (1997-2003)
Research Associate. Division of Paleontology, American Museum of Natural History, New York (1999-)
Research Associate. Department of Geological Sciences, Binghamton University (1996-)
Alexander von Humboldt Fellow. Paläontologie Institut, Universität Würzburg, Germany (1995-1997)

PROFESSIONAL POSTS

Curator, Bowers Hall Science Museum, SUNY Cortland. (January 2017-present)
Editor in Chief, *Albertiana*. The International Journal of Triassic Research. (December 2013-present)
Secretary General, IUGS, Subcommittee on Triassic Stratigraphy (2004-present)
Co-Leader, International Geological Correlation Program Project 458 end-Triassic biotic events (2002-2005)
Acting Chair, SUNY Cortland Geology Department (2005-06, Fall 2007, and Fall 2009)
Chair, Northeast Section, Paleontological Society (2000-2002)

OTHER APPOINTMENTS AND AWARDS

Appointed SUNY Distinguished Academy (2014)
SUNY Chancellor's Award for Excellence in Scholarship and Creative Activities (2011)
Phi Kappa Phi Honor Society (2014-)
SUNY Cortland, Excellence in Research and Scholarship Award (2006)
SUNY Cortland, Outstanding Achievement in Research Award (2005)

SUNY Cortland, Excellence in Research and Scholarship Award (2003)
Paleontological Research Institution, Thomas J. Dutro Student Research Award (1994)
Newton Chute Award for Academic Achievement, Syracuse University (1994).
Hooker Award for Outstanding Dissertation Proposal, Syracuse University (1992).
Geological Society of America Outstanding Student Research Award (1992).

SIGNIFICANT COLLEGE SERVICE AND COMMITTEES

Appointed Member, President's Leadership Coalition for Student Engagement, SUNY Cortland (2009-)
Director, SUNY Cortland's Undergraduate Research Council (2008-2017)
Member, SUNY Cortland's Electronic Communications Advisory Group (2011-)
Geology Representative to the Bowers Science Building Renovation Project (2009-)
Member, SUNY Cortland's Quantitative Skills Committee (2008-2013)
Chair, SUNY Cortland's College Research Committee (2000-2006)
Appointed Member and Chair, President's Task Force to Promote and Expand Research and Scholarship Through External Funding at SUNY Cortland (2001-2002)

COURSE NORMALLY TAUGHT

Historical Geology, Invertebrate Paleontology, Stratigraphy and Sedimentology, Data Analysis in the Natural Sciences, Field Geology, History of Geology (grad), Mass Extinctions (grad), Field Geology

PROFESSIONAL AFFILIATIONS

Paleontological Society, Palaeontological Association, Geological Society of America, SEPM (Society for Sedimentary Geology), National Center for Science Education, Sigma Gamma Epsilon

MEDIA AND PRESS

Research, publications, and opinion highlighted in multiple media outlets including: National Geographic News, Nature, Live Science, Seattle Times, Syracuse Post Standard, Cortland Standard, GSA Today.

INVITED LECTURES AND APPEARANCES

Invited keynote speaker, Brooks Museum Lecture Series, SUNY Cortland (November, 2016)
Invited Panelist: Evolution and the Fossil Record. Darwin Days Celebration: Cornell University and Museum of the Earth (February, 2014)
Invited Panelist: The Science Behind the Story: PBS's Nova depiction of Mass Extinction. Sponsored by WSKG (Binghamton's PBS affiliate), Museum of the Earth and SUNY Cortland. (April 3, 2012)
Invited keynote speaker, Paleontological Research Institute Summer Symposium (2011)
Invited speaker: Hobart & William Smith Colleges, Geology Seminar, Geneva, New York (April, 2011)
Invited speaker: Annual Meeting of the Science Teachers Association of New York (March, 2010)
Expert interview for Animal Planet television series "Animal Armageddon" (aired September 2009)
Invited speaker: Stanford University, Geology Seminar, Palo Alto, CA (May, 2009)
Invited speaker: University of British Columbia, Vancouver, Geosciences Seminar (November, 2007)
Invited speaker: Onondaga Community College, Geology Seminar (November, 2006)
Invited speaker: Mohawk Valley Community College, Science Seminar (2006)
Invited speaker: Natural History at Noon, Museum of the Earth and PRI, Ithaca (November 2005)

Invited speaker: University of Montana, Geology Seminar (2003)
Invited speaker: Binghamton University Geological Sciences Seminar Series (2003)
Invited speaker: San Diego State University, Geological Sciences Lecture Series (2001)
Invited speaker: Binghamton University, Geological Sciences Seminar (2000)
Invited speaker: Colgate University, Geosciences Seminar (March 2000)
Invited Speaker: University of Iowa, Seminar Series (1999).
Invited Speaker: University of Pittsburgh, Seminar Series (1998).
Invited Speaker: Binghamton University, Seminar Series (1996).
Invited Speaker: Universität Würzburg, Geoscience Colloquium Series (1995).

GRADUATE COMMITTEES SERVED

PhD committee: Patrick Wall, Syracuse University (awarded PhD 2009)
M.Sc. committee: Laura Stafford, Syracuse University (awarded MSc 2004)

SIGNIFICANT MENTORING AND RESEARCH WITH STUDENTS

Cooper Malanoski (exp B.S. 2020). Burial diagenesis and geothermobarometry using conodont alteration indices from Lower Devonian Heldebergian strata, eastern and central New York.

Melissa Caruana (exp B.S. 2020). Biochronology of Ordovician graptolites from Utica Shale, central New York.

Shaolin Censullo (exp B.S. 2018). Taphonomy of *Triarthrus* trilobite assemblages from the Ordovician Utica Shale, central New York.

Tiffany Leone (exp B.S. 2018). Mineralogical and stromatolite microstructure of pink crinoids from the Becraft Formation, eastern New York.

Taylor Buckley (exp B.S. 2018). Hypercalcifying megalodontoid bivalves and the end-Triassic mass extinction.

Joseph Cataldo (exp B.S. 2016). Accelerated faunal turnover and evolutionary rates following mass extinction events.

Michelle TenEyck (MAT. 2014). Morphometrics of the Devonian bivalve *Actinopteria*.

Jeri Burke (B.S. 2013). Original color spots in phacopid trilobites from the Devonian of western New York.

Carolyn Furlong (B.S. 2012). Commensal sponge and worm boring traces on brachiopod hosts from the Middle Devonian of central New York.

Robert Hornung (B.S. 2010). Paleocology of shelly accumulations from a well-preserved fossil locality of the Middle Devonian Ludlowville Formation of central New York

Jonathon Zabron. (B.S. 2009). Faunal change across the end-Triassic mass extinction in the Lombardian Alps of northern Italy

Kathrine Newman (2008). SEM analyses of skeletal microstructure of silicified bivalve fauna from the Upper Triassic of southeastern Alaska,

Adriel Shea (B.S. 2007). Two projects: (1) Faunal change across the end-Triassic mass extinction in the Northern Calcareous Alps of Austria, (2) Rhaetian (Late Triassic) *Monotis* (Bivalvia: Pectinoidea) from the eastern Northern Calcareous Alps (Austria) and the end-Norian crisis in pelagic faunas.

Jason Smith (B.S. 2006). Shell bed genesis and taphonomy of a well-preserved fossil locality of the Middle Devonian Ludlowville Formation of central New York

James Morgenthau (B.S. 2005). Bivalve diversity of the Triassic of Atigun Gorge, Arctic Alaska

Emily Hopkin (B.S. 2005). Two projects: (1) A new Middle Triassic "flat clam" from the Middle Triassic of western Nevada; (2) bivalve diversity of the Upper Triassic of southeastern Alaska

Jeffery Shanner (B.S. 2001). Bivalve diversity of the Upper Triassic of British Columbia, Canada

MEETINGS AND SYMPOSIA CHAIRED AND/OR ORGANIZED

Chaired session and scientific committee: International Union of Geological Sciences, Symposium on New Developments on Triassic Integrated Stratigraphy (Palermo, Italy, September, 2010)

Chaired session: International Union of Geological Sciences, Symposium on Triassic Bioevents and Biochronology (Goisern, Austria, October, 2008)

Organizing committee and chaired session: International Symposium on The Global Triassic (Albuquerque, NM, 2007)

Meeting co-organizer & volume editor. 79th New York State Geol. Assoc. Meeting (Cortland, NY, 2007)

Chaired session: International Symposium on Triassic-Jurassic Mass Extinction (Tata, Hungary, 10/05)

Keynote Speaker, International Symposium on Triassic Chronostratigraphy and Biotic Recovery (Chaohu, China, May, 2005)

Symposium and session chair: Symposium on Triassic-Jurassic Boundary Events. Catastrophes in Earth History, 32nd International Geological Congress (Florence, Italy, August 2004).

Session chair: Special Session Extinction Events, faunal turnovers and natural boundaries within and around the Late Triassic. Geological Association of Canada, Annual Meeting, (Vancouver, May, 2003)

Workshop organizer and session chair: International Geological Correlation Program, 2nd Field workshop on the end-Triassic Mass Extinction, (New York, NY, June 2003).

Session chair: Paleontological Society Sponsored Theme Session, Paleobiology and paleoecology of black shale faunas. Geological Society of America. (Burlington, VT, March, 2001)

Session chair: Paleontological Society Sponsored Theme Session on Taphonomy. Geological Society of America (New Brunswick, NJ, March, 2000).

GRANTS AWARDED AND PENDING (only those over \$1,000 listed)

\$ 38,566	<i>National Science Foundation</i> . Collaborative research: testing the long Norian hypothesis: investigation of a Late Triassic mixed limestone and volcanic succession, eastern Oregon and western Idaho. co-PI with: T. LaMaskin and C. Lane (UNC-W), and M. Schmitz (Boise State). Total award if funded \$349,960.	Pending
\$ 6,969	SUNY Cortland Academic Program Innovation Grant, Major Upgrade to the Geology Department's X-ray Diffractometer for Hands-On Learning and Student and Faculty Research. Lead PI with co-PI Dr. Robert Darling,	2017
\$ 100,100	<i>National Science Foundation</i> . MRI: Acquisition of a Powder X-Ray Diffractometer to Enhance Faculty and Undergraduate Research and Education in Geology and Chemistry at SUNY Cortland. Lead PI, with co-PIs R. Darling, K. Downey, and D. Collins.	2009-2010
\$ 2,000	<i>Subcommission on Triassic Stratigraphy and Università di Palermo</i> . Travel grant.	2010
\$ 2,500	<i>Austrian Academy of Sciences and Austrian National Committee of the International Geologic Correlation Program</i> . Travel grant.	2009

\$ 50,900	<i>National Science Foundation</i> . Bivalve Richness and Ecologic Diversity of the End-Triassic Mass Extinction: Faunal Analysis from the West-Tethyan, Lombardy, La Spezia and Kösse Basins (Italy and Austria). Sole PI.	2005-2007
\$ 46,000	<i>Petroleum Research Fund of the American Chemical Society</i> . Integrated biochronology and paleoecology of the Triassic bivalve <i>Halobia</i> from western North America. Sole PI.	2002-2005
\$ 12,000	<i>Alaska Division of Geology and Natural Resources</i> . Paleontology and biochronology of Upper Triassic Otuk Formation, Brooks Range, Alaska. Co-PI with M. Whalen (Univ. Alaska)	2003
\$ 50,000	<i>International Geological Correlation Programme, UNESCO</i> . Triassic/Jurassic boundary events: Mass extinction, global environmental change, and their driving forces. Co-PI with Jozsef Pálffy (Budapest) and Steven Hesselbo (Oxford)	2001-2005
\$ 2,328	<i>SUNY Cortland Faculty Research Program</i> . Biochronology of Triassic bivalve mollusks from the Peace River Foothills, northeastern British Columbia, Canada. Sole PI.	2001
\$ 2,778	<i>SUNY Cortland Faculty Research Program</i> . Temporal and ecologic controls in bivalve morphology: a morphometric analysis of <i>Actinopteria</i> from the Middle Devonian of central NY. Sole PI.	1998
\$ 59,575	<i>National Science Foundation</i> . Spatio-Temporal Patterns of Taxonomic and Ecologic diversity of Marine Triassic Bivalve Molluscs of Western North America. Sole PI.	1998-2001

PEER REVIEW

Journals: *Nature Geoscience, Geology, Journal of Paleontology, PALAIOS, Paleobiology, Palaeogeography Palaeoclimatology Palaeoecology, Bulletins of American Paleontology, Journal of the Geological Society of London, Earth Science Reviews, Canadian Journal of Earth Science, American Geophysical Union, Paläontologische Zeitschrift, Paleobios, New Mexico Museum of Natural History Bulletin, Rivista Italiana di Paleontologia e Stratigrafia, Acta Palaeontologica Polonica, South American Journal of Earth Sciences, Paläontologische Gesellschaft, Journal of Geological Education.*

External Funding Agencies: *National Science Foundation, NASA Postdoctoral Program (Astrobiology Division), International Science Foundation, Petroleum Research Fund of the American Chemical Society, Resource Council Canada, Swiss Science Foundation, Sepkoski Fund of the Paleontological Society.*

PUBLICATIONS (PEER-REVIEWED JOURNAL ARTICLES, BOOK CHAPTERS, AND EDITED VOLUMES)

(undergraduate student co-authors indicated with *)

McRoberts, C.A. 2017. A silicified Late Triassic (Norian) bivalve molluscan fauna from the Alexander terrane, southeast Alaska. *Bulletins of American Paleontology*, No. 391, 108 pp.

Alsen, P., McRoberts, C., Bojesen-Koefoed, J., Hovikoski, J., Piasecki, S., and Svennevi, K., 2016. The Isrand Formation: a Middle Triassic *Daonella*-bearing, black shale unit in Kilen, North Greenland (with a note on the Triassic in Amdrup Land). *Newsletters on Stratigraphy*, vol. 50/1 (2017), 31-46.

- Balini, M. Jenks, J.F., Martin, R., McRoberts, C.A., Orchard, M.J., and Silberling, N.J. 2014. The Carnian/Norian boundary succession at Berlin-Ichthyosaur State Park (Upper Triassic, central Nevada, USA). *Paläontologische Zeitschrift*, doi. 10.1007/s12542-014-0244-2.
- Wotzlaw, J., Guex, J., Bartolini, A., Gallet, Y., Krystyn, L. McRoberts, C., Taylor, D., Schoene, B., and Schaltegger, U., 2014. Towards accurate numerical calibration of the Late Triassic: High-precision U-Pb geochronology constraints on the duration of the Rhaetian. *Geology*, vol. 42, p. 571-574.
- Druckenmiller, P., Kelley, N., Whalen, M., McRoberts, C. and Carter, J. 2014. An Upper Triassic (Norian) ichthyosaur (Reptilia, Ichthyopterygia) from northern Alaska and dietary insight based on gut contents. *Journal of Vertebrate Paleontology*, vol. 34, p. 1460-1465.
- *Furlong, C. and McRoberts, C.A. 2014. Commensal borings from the Middle Devonian of central New York: Ecologic and taxonomic review of *Clionoides*, *Clinolithes*, and *Canaliparva* n. ichnogen. *Journal of Paleontology*, vol. 88, p. 131-145.
- Hillebrandt, A.v Krystyn, L., Kürschner, W.M., Bonis, N.R., Ruhl, M., Richoz, S., Schobben, M.A.N., Urlichs, M., Bown, P.R., Kment, K., McRoberts, C.A., Simms, M. and Tomášovych, A. 2013. The Global Stratotype Sections and Point (GSSP) for the base of the Jurassic System at Kuhjoch (Karwendel Mountains, Northern Calcareous Alps, Tyrol, Austria). *Episodes*, vol. 36, p. 162-198.
- McRoberts, C., Hegna, T., *Burke, J., *Stice, M. Mize, S. and Martin, M. 2013. Original spotted patterns on Middle Devonian phacopid trilobites from western and central New York. *Geology*, vol. 41, no. 5, p. 607-610.
- Rigo, M., McRoberts, C.A., Ciarapica, G., Giordano, N. and Bachan, A. 2013. New Stratigraphic, paleontologic and geochemical data around the Triassic-Jurassic boundary at Portovenere (Northern Apennines, Italy). p. 489-499, *In: Tanner, L., Spielmann, J. and Lucas, S. (eds.), The Triassic System. New Mexico Museum of Natural History and Science, Bulletin 61.*
- McRoberts, C. Krystyn, L., and Hautmann, M. 2012. Macrofaunal response to the end-Triassic mass extinction in the West-Tethyan Kössen Basin, Austria. *PALAIOS*, vol. 27, p. 607-616.
- Bachan, A., van de Schootbrugge, B., Fiebig, J., McRoberts, C.A., Ciarapica, G., and Payne, J.L. 2012. Carbon cycle dynamics following the end-Triassic mass extinction: Constraints from paired $\delta^{13}\text{C}_{\text{carb}}$ and $\delta^{13}\text{C}_{\text{org}}$ records. *Geochemistry, Geophysics, Geosystems*. vol. 13, doi:10.1029/2012GC004150.
- Di Stefano, P., McRoberts, C., Renda, P., Tripodo, A., Torre, A., and Torre, F., 2012. Middle Triassic (Ladinian) deep-water sediments in Sicily: New findings from the Madonie Mountains. *Rivista Italiana di Paleontologia e Stratigrafia*, vol. 118, no. 2, p. 1-12
- Carter, J. Harries, P., Malchus, N., Sartori, A., Anderson, L., Bieler, R., Bogan, A., Coan, E., Cope, J., Cragg, S., Garcia-March, J., Hylleberg, J., Kelly, P., Kleeman, K., Kriz, J., McRoberts, C., Mikkelsen, P., Pojeta, J. Temkin, I., Yancey, T., and Zierits, A. 2012, Illustrated Glossary of the Bivalvia, pp. 1-209, *In Selden, P. (ed.), Treatise on Invertebrate Paleontology, Part N, Revised, Mollusca 6, Bivalvia, Volume 1, Chapter 30, Treatise Online*, University of Kansas, Paleontological Institute.
- McRoberts, C.A. 2011. Late Triassic Bivalvia (chiefly Halobiidae and Monotidae) from the Pardonet Formation, Williston Lake area, northeast British Columbia, Canada. *Journal of Paleontology*, vol. 85, p. 615-666.
- Carter, J., (and 49 others). 2011. A Synoptical Classification of the Bivalvia (Mollusca): University of Kansas, Paleontological Institute, *Paleontological Contributions*, No. 4, p. 1-47.
- McRoberts, C.A. 2010. Biochronology of Triassic bivalves, p. 201-219. *In: Lucas S.G. (ed.) The Triassic Time Scale. Geological Society of London Special Publication*, No. 334.

- Zonneveld, J.-P., Beatty, T.W., Williford, K.H., Orchard, M.J., and McRoberts, C.A. 2010. Stratigraphy and sedimentology of the lower Black Bear Ridge section, British Columbia: Candidate for the base-Norian GSSP. *Stratigraphy*, vol. 7, p. 61-82.
- Ward, P.D. McRoberts, C.A., and Williford, K. 2009. Reply to comment on: "The organic carbon isotopic and paleontological across the Triassic–Jurassic boundary at the candidate GSSP section at Ferguson Hill, Muller Canyon, Nevada, USA" by Ward et al. (2007). *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 273, p. 205-206.
- McRoberts, C.A., Krystyn, L. and *Shea, A. 2008. Rhaetian (Late Triassic) *Monotis* (Bivalvia: Pectinoida) from the eastern Northern Calcareous Alps (Austria) and the end-Norian crisis in pelagic faunas. *Palaeontology*, vol. 51, no. 3, p. 721-735.
- McRoberts, C.A. 2008. Rhaetian bivalves and the Norian/Rhaetian Boundary, p. 41-44, *In*: Krystyn, L. and Mandl, G. W. (eds.), Upper Triassic Subdivisions, Zonations and Events. *Berichte der Geologischen Bundesanstalt der Österreich*, vol. 76.
- Balini, M., Bertinelli, A., Di Stefano, P., Dumitrica, P., Furin, S., Gullo, M., Guaiumi, C., Hungerbuehler, A., Levera, M., Mazza, M., McRoberts, C.A, Muttoni, G., Nicora, A, Preto, N., and Rigo, M. 2008. Integrated stratigraphy of the Norian GSSP candidate Pizzo Mondello section (Sicani Mountains, Sicily), p. 23-25, *In*: Krystyn, L. and Mandl, G. W. (eds.), Upper Triassic Subdivisions, Zonations and Events. *Berichte der Geologischen Bundesanstalt der Österreich*, vol. 76.
- Levera, M. and McRoberts, C.A. 2008. Carnian/Norian halobiids from Pizzo Mondello section (Sicani Mountains, Sicily), p. 20-22, *In*: Krystyn, L. and Mandl, G.W. (eds.), Upper Triassic Subdivisions, Zonations and Events. *Berichte der Geologischen Bundesanstalt der Österreich*, vol. 76.
- Stanley G.D. Jr., McRoberts, C.A., and Whalen, M.T. 2008. Stratigraphy of the Triassic Martin Bridge Formation, Wallowa terrane: Stratigraphy and depositional setting, pp. 227–250. *In*: Blodgett, R. B., and Stanley, G. D. (eds.) The terrane puzzle: New perspectives on paleontology and stratigraphy from the North American Cordillera. *Geological Society of America Special Paper*, vol. 442.
- McRoberts, C.A., Ward, P. and Hesselbo, S.P. 2008. A proposal for the base Hettangian Stage (= base Jurassic System) GSSP at New York Canyon (Nevada, USA) using carbon isotopes. *International Subcommission on Jurassic Stratigraphy Newsletter*, vol. 34. pp. 43-49.
- Hesselbo, S.P., McRoberts, C.A., and Pálffy, J. (editors). 2007. Special Issue: Triassic—Jurassic Boundary Events. *Palaeogeography, Palaeoclimatology Palaeoecology*, vol. 244, nos. 1-4, 423 p.
- Hesselbo, S.P., McRoberts, C.A., and Pálffy, J. 2007. Triassic—Jurassic boundary events: Problems, progress, possibilities. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 244, p. 1-10.
- Ward, P.D., Garrison, G.H., Williford, K.H., Kring, D.A., Goodwin, D., Beattie, M.J., and McRoberts, C.A. 2007. The organic carbon isotopic and paleontological record across the Triassic-Jurassic boundary at the candidate GSSP section at Ferguson Hill, Muller Canyon, Nevada, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 244, p. 281-289.
- Balini, M., Jenks, J., McRoberts, C.A. and Orchard, M. 2007. The Ladinian—Carnian boundary succession at South Canyon (New Pass Range, central Nevada). *New Mexico Museum of Natural History and Science Bulletin* No. 40, p. 1-12.
- McRoberts, C.A. (editor). 2007. *Field Trip Guidebook*. New York State Geological Association 79th Annual Meeting SUNY Cortland, 187 p.
- Landon, N. K., Whalen, M.T., McRoberts, C.A., *Hopkin, E., and Tomsich, C.S. 2007. Sequence stratigraphy and geochemistry of the upper Lower through Upper Triassic of northern Alaska: Implications for paleoredox history, source rock accumulation, and paleoceanography. *Report of*

Investigations, State of Alaska, Department of Natural Resources, Division of Geological and Geophysical Surveys, vol. 2007-1, p. 1-50.

- Yin, J. and McRoberts, C.A. 2006. Latest Triassic-earliest Jurassic bivalves from the Germig Formation from Lanongla (Tibet, China). *Journal of Paleontology*, vol. 80, p. 104-120.
- McRoberts, C.A. and Newell, N.D. 2005. Marine Myalinidae (Bivalvia: Pterioidea) from the Permian of West Texas. *American Museum Novitates*, No. 3469, pp. 1-15.
- *Hopkin, E.K. and McRoberts, C.A. 2005. A New Middle Triassic Flat Clam (Pterioidea: Halobiidae) from the Middle Anisian of North-Central Nevada, USA. *Journal of Paleontology*, vol. 79, no. 4, pp. 796-800.
- McRoberts C.A. and Blodgett, R. 2002. Late Triassic (Norian) Molluscs from the Taylor Mountains, Alaska. *U.S. Geological Survey Professional Paper 1662*. 22 p.
- McRoberts, C.A. 2001. Triassic bivalves and the beginning of the Marine Mesozoic Revolution: A role for predators? *Geology*, vol. 29: 359-362.
- Orchard, M.J., Zonneveld, M.J., Johns, M.J., McRoberts, C.A., Tozer, E.T., and Sandy, M.R. 2001. Fossil succession and sequence stratigraphy of the Upper Triassic of Black Bear Ridge, northeast British Columbia, a GSSP prospect for the Carnian-Norian boundary. *Albertiana*, vol. 25, p. 10-22.
- Orchard, M.J., McRoberts, C.A., Tozer, E.T., Johns, M.J., Sandy, M.R., and *Shaner, J.S. 2001. The Upper Triassic of Black Bear Ridge, Williston Lake, northeast British Columbia: an integrated biochronology. *Geological Survey of Canada Current Research*, vol. 2001-A6, p. 1-21.
- McRoberts, C.A., and Newell, N.D. 2001. A new Permian myalinid genus, *Elversella*, of west Texas. *American Museum Novitates*, No. 3311, pp. 1-5.
- McRoberts, C.A. 2000. A primitive *Halobia* (Bivalvia: Halobioidea) from the Triassic of northeast British Columbia: Implications on the origin and phylogeny of *Halobia*. *Journal of Paleontology*, vol. 74: 599-603
- McRoberts, C.A. 2000. Faunal Change and Turnover, pp. 455-457. In: R. Singer (ed.), *Encyclopedia of Paleontology*. Fitzroy Dearborn Publishers, Chicago. vol.1.
- Pandey, D.K., McRoberts, C.A. Pandit, M.K. 1999. *Dimorpharea* (Scleractinia, Anthozoa) from the Middle Jurassic of Kachchh, India. *Journal of Paleontology* vol. 73, p. 1015-1028.
- McRoberts, C.A. 1999. Late Triassic (Norian-Rhaetian) bivalves from the Antimonio Formation, northwest Sonora, Mexico. *Revista Mexicana de Ciencias Geológicas*, vol. 14, no. 2, p. 167-177.
- McRoberts, C.A., Furrer, H., and Jones, D.S. 1997. Interpretation of a Triassic-Jurassic boundary section from western Austria based on palaeoecology and geochemistry. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 136, p. 79-95.
- McRoberts, C.A. and Aberhan, M. 1997. Marine diversity and sea-level changes: Numerical tests for association using Early Jurassic bivalves. *Geologische Rundschau*, v. 86, p. 160-167.
- McRoberts, C.A. and Newell, N.D. 1997. A new transitional myalinid bivalve from the Lower Permian of west Texas. *Palaeontology*, vol. 40, p. 487-495
- McRoberts, C.A. 1997. Chapter 22. Late Triassic North American Halobiid Bivalves: Diversity Trends and Circum-Pacific Correlations, p. 198-208. In: J.M. Dickens, et al. (eds.). *Late Paleozoic and Early Mesozoic Circum-Pacific Events*. Cambridge University Press, *World and Regional Geology Series*, vol. 10.

- McRoberts, C.A. and Newton, C.R. 1995. Selective extinction among end-Triassic European bivalves. *Geology*, vol. 23, p. 102-104.
- McRoberts, C.A., Newton, C.R., and Allasinaz, A. 1995. End-Triassic bivalve extinction: Lombardian Alps, Italy. *Historical Biology*, vol. 9, p. 297-317.
- McRoberts, C.A. and Carter, J.G. 1994. Nacre in an early gryphaeid bivalve (Mollusca). *Journal of Paleontology*, vol. 68, p.1405-1408.
- McRoberts, C.A. 1994. The Triassic-Jurassic ecostratigraphic transition in the Lombardian Alps, Italy. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 110, p.145-166
- McRoberts, C.A. 1993. Systematics and biostratigraphy of halobiid bivalves from the Martin Bridge Formation (Upper Triassic), northeast Oregon. *Journal of Paleontology*, vol. 67, p.198-210.
- Stanley, G.D. Jr. and McRoberts, C.A. 1993. A coral reef in British Columbia: significance of the earliest Jurassic coral reef in North America. *Canadian Journal of Earth Science*, vol. 30, p. 819-831.
- Tamura, M. and McRoberts, C.A. 1993. A new species of *Myophorigonia* from the Upper Triassic of Oregon, with a reference to the Minetrigoniidae of the circum-Pacific. *Memoirs of the Faculty of Education, Kumamoto University, Natural Science*, vol. 42, p. 29-34.
- McRoberts, C.A. 1992. Systematics and paleobiogeography of Late Triassic *Gryphaea* (Bivalvia) from the North American Cordillera. *Journal of Paleontology*, vol. 66, p. 28-39.
- Bice, D.M., Newton, C., McCauley, S., Reiners, P. and McRoberts, C.A. 1992. Shocked quartz at the Triassic-Jurassic boundary in Italy. *Science*, vol. 255, p. 443-446.
- McRoberts, C.A. and Stanley, G.D. Jr. 1991. Halobiid biostratigraphy and a Carnian-Norian Stage boundary in northeast Oregon. *Albertiana*, vol. 9, p. 6-10.
- McRoberts, C.A. and Stanley, G.D. Jr. 1989. A unique bivalve-algal life association from the Bear Gulch Limestone (Upper Mississippian) of Central Montana. *Journal of Paleontology*, vol. 63, p. 578-581.

PUBLISHED BOOK REVIEWS

- McRoberts, C.A. 2016. Events of increased biodiversity: evolutionary radiations in the fossil record. by Anthony N. Pascal, Choice Reviews, July 2016. doi: 0.5860/CHOICE.193300.
- McRoberts, C.A. 2015. Review of: *Dodging Extinction*. by Anthony D. Barnosky, Choice Reviews, May, 2015. doi:0.5860/CHOICE.188055.
- McRoberts, C.A. 2014. Review of: *Megafauna: giant beasts of Pleistocene South America*. by R. Fariña, S. F. Vizcaíno, and G De Iuliis, Choice Reviews, January, 2014. doi: 10.5860/CHOICE.51-2683.
- McRoberts, C.A. 2013. Review of: *Visions of a Vanished World*, by G. Kühn et al.. Choice Reviews, June, 2013. doi: 10.5860/CHOICE.50-5609.
- McRoberts, C.A. 2012. Review of: *Stratigraphic Paleobiology: Understanding the Distribution of Fossil Taxa in Time and Space*, by Mark E. Patzkowsky and Steven M. Holland. Choice Reviews, October, 2012. doi: 10.5860/CHOICE.50-0901.
- McRoberts, C.A. 2012. Review of: *Applications of Palaeontology: Techniques and Case Studies* by Robert Wynn Jones. Choice Reviews, May 2012. doi: 10.5860/CHOICE.49-5209
- McRoberts, C.A. 2011. Review of: *Introducing Palaeontology: A Guide to Ancient Life* by Patrick Wyse Jackson. Choice Reviews, September 2011. doi: 10.5860/CHOICE.49-5209.

- McRoberts, C.A. 2011. Review of: *Taphonomy: Process and Bias Through Time*, ed. by Peter A. Allison and David J. Bottjer. 2nd ed. Choice Reviews, June 2011. doi: 10.5860/CHOICE.48-5704.
- McRoberts, C.A. 2008. Book Review: *Principles of Paleontology* by M. Foote and A. Miller. *American Paleontologist*, vol. 16, p. 38-40.
- McRoberts, C.A. 2006. Book Review: *A Geologic Time Scale 2004*. *American Paleontologist*, vol. 14, p. 18-20.
- McRoberts, C.A. 2001. A review of *Building Planet Earth: five billion Years of Earth History* by P. Cattermole. *PALAIOS*, vol. 6, no. 3, p. 306.
- McRoberts, C.A. 1998. The sea level did it: A review of *Mass Extinctions and their Aftermath* by A. Hallam and P. Wignall. *American Paleontologist*. vol. 6 (no. 2), p. 10-11.

PUBLISHED ABSTRACTS IN CONFERENCE PROCEEDINGS

(undergraduate student co-authors indicated with *)

- *Censullo, S. and McRoberts, C. 2017. *Triarthrus* from the Upper Ordovician of New York revisited: taphonomic, taxonomic and morphometric analysis of *Triarthrus beckii* Geen and *Triarthrus eatoni* (Hall). *Geological Society of America Annual Meeting, Abstracts with Programs*, vol. 49, no. 2, 46-4.
- *Leone, T. and McRoberts, C. 2017. Geochemical diagenetic modification of pink crinoid ossicles from the Lower Devonian Becraft Formation of New York. *Geological Society of America Annual Meeting, Abstracts with Programs*, vol. 49, no. 2, 26-34.
- *LaPointe, C.W., Nagel-Myers, J. and McRoberts, C.A. 2016. Morphometric analysis of shape changes in a Middle Devonian pteriod bivalve lineage. *Geological Society of America Annual Meeting, Abstracts with Programs*, vol. 47, no. 7, p. 139.
- Blanton, C.M., LaMaskin, T.A., Lane, C., McRoberts, C.A., Nicholas O. Moore, N.O., and Albritton, C.K. 2015. A new Late Triassic (Norian) marine stable isotope record from western Idaho: a previously unrecognized global OAE? *Geological Society of America Rocky Mountain Meeting, Abstracts with Programs*, vol. 47, No. 2, p.74.
- Albritton, C., Lamaskin, T., Lane, C., Orchard, M.J., and McRoberts, C.A.. 2014. Locating the Carnian–Norian boundary in the Martin Bridge Limestone, Blue Mountains Province, Oregon: Initial results of conodont biochronology and stable isotope geochemistry. *Geological Society of America Rocky Mountain Meeting, Abstracts with Programs*, vol. 46, No. 5, p.17.
- *Catlado, J. and McRoberts, C., 2014. Species longevities of Triassic bivalves and the recovery of the end-Permian mass extinction. *Geological Society of America Northeastern Meeting, Abstracts with Programs*, vol. 46, No. 2, p.82
- Balini, M., Bertinelli, A., Carter, E., Di Stefano, P., Kyrstyn, L., Levera, M., Mazza, M., McRoberts, C. , Muttoni, G., Nicora, A., Orchard, M.J., Preto, N., Rigo, M., Tripodo, A., and Zonneveld, J.P. 2012. Towards the definition of the GSSP of the Norian Stage (Upper Triassic): integrated stratigraphy and correlation of the two candidate sections Black Bear Ridge (BC, Canada) and Pizzo Mondello (Italy). *Abstracts of the 34th International Geological Congress, Brisbane, Australia*. Abs. No. GC126222
- McRoberts, C., Hegna, T., *Burke, J. *Stice, M. Mize, S. Martin, M. 2012. Original spotted patterns on Middle Devonian phacopid trilobites from western and central New York. *Geological Society of America Annual Meeting, Abstracts with Programs*, vol. 44, no. 7, p. 374.

- *Furlong, C. and McRoberts, C.A. 2012. Commensal borings from the Middle Devonian of central New York and the status of *Paleosabella* Clarke 1921, *Clionoides* Fenton and Fenton 1932 and *Vermiforichnis* Cameron 1969. *Geological Society of America Annual Meeting, Abstracts with Programs*, vol. 44, no. 7, p. 275.
- *Burke, J., and McRoberts, C. 2012. Original(?) color spots in phacopid trilobites from the Middle Devonian Hamilton Group of Western and Central New York. *Central New York Earth Science Student Symposium, (April, 2012, Syracuse University)*, Abstract Volume, p. 10.
- *Furlong, C., and McRoberts, C. 2012. Commensal endolithic borings in brachiopod hosts from the Middle Devonian Hamilton Group of Central New York. Central New York. *Central New York Earth Science Student Symposium, (April, 2012, Syracuse University)*, Abstract Volume, p. 14.
- McRoberts, C.A. 2011. Habitat heterogeneity and speciation among deep-sea Triassic benthic bivalves from the exaerobic zone. *Geological Society of America Annual Meeting, Abstracts with Programs v. 43*, no. 5, p. 208.
- McRoberts, C.A. and Krystyn, L. 2011. The FOD of *Halobia austriaca* at Black Bear Ridge (northeastern British Columbia) as the potential base-Norian GSSP. *Abstracts of the 21st Canadian Paleontological Conference, Vancouver, B.C.*
- *Furlong, C. and McRoberts, C.A. 2011. Commensal endolithic boring traces on spiriferid hosts from the Middle Devonian of central New York. *Geological Society of America, Northeastern and North-Central Joint Meeting, Abstracts with Programs*, vol. 43, no. 1, p. 68.
- McRoberts, C.A. 2010. Paleoeological controls on Triassic flat clam biochronology, p. 38. In Di Stefano, P. and Balini (eds.), *New Developments on Triassic Integrated Stratigraphy. Museo Geologico "G. G. Gemmerllaro"*, Palermo, Italy, September 12-16. Program and Abstracts.
- Balini, M., Bertinelli, A., Di Stefano, P., Guaiumi, C., Levera, M., Mazza, M., Muttoni, G., Nicora, A, Preto, N., Rigo, M., Kyrstyn, L., and McRoberts, C.A. 2010. Biochronostratigraphic calibration of the Upper Carnian-Lower Norian magnetostratigraphic scale at Pizzo Mondello (Sicani Mountains, Sicily), p. 7. In Di Stefano, P. and Balini (eds.), *New Developments on Triassic Integrated Stratigraphy. Museo Geologico "G. G. Gemmerllaro"*, Palermo, Italy, September 12-16. Program and Abstracts.
- Levera, M. and McRoberts, C.A. 2010. Halobiid bivalves as a tool for high resolution correlation between Carnian-Norian successions in Tethys and Panthalassa: A potential datum for a base-Norian GSSP, p. 34. In Di Stefano, P. and Balini (eds.), *New Developments on Triassic Integrated Stratigraphy. Museo Geologico "G. G. Gemmerllaro"*, Palermo, Italy, September 12-16. Program and Abstracts.
- Zonneveld, J.-P., Orchard, M.J., Beatty, T.W., McRoberts, C.A., and Williford, KH. 2010. Stratigraphic architecture of Upper Triassic strata in the Williston Lake area, northeast British Columbia: Implications for the Carnian-Norian GSSP, p. 49. In Di Stefano, P. and Balini (eds.), *New Developments on Triassic Integrated Stratigraphy. Museo Geologico "G. G. Gemmerllaro"*, Palermo, Italy, September 12-16. Program and Abstracts.
- McRoberts, C. 2007. Diversity dynamics and evolutionary ecology of Middle and Late Triassic halobiid and monotid bivalves. *Abstracts of The International Meeting: The Global Triassic. New Mexico Museum of Natural History and Science Bulletin No. 41*, p. 272.
- Olsen, P.E., Whiteside, J.H., McRoberts, C., Et-Touhami, M., 2006, The first 200 ky of the Early Jurassic in eastern North America and Morocco. *La 5 Réunion du Groupe Marocain du Permien et du Trias aura lieu à la Faculté des Sciences Chouaïb Doukkali, El Jadida, Maroc du 26 au 29 avril 2006, Résumés*, p. 65.

- McRoberts, C., Olsen, P. and Whiteside, J. 2006. Linking terrestrial and marine extinctions: Disaster Species and the end-Triassic extinction. *Geological Society of America, Abstracts with Programs*, vol. 38, no. 7, p. 339.
- McRoberts, C. 2005. Extinction and survival of Permian to Early Triassic marine Myalinidae (Bivalvia: Pterioida). In Abstracts of the International Symposium on Triassic Chronostratigraphy and Biotic Recovery. Chaohu, China. *Albertiana*, vol. 33, p. 60-61.
- Zonneveld, J.-P., Henderson, C.M., Hall, R., McRoberts, C.A., Orchard, M.J., and Pitaru, S., 2005. Stratigraphy, sedimentology and faunal distribution of Triassic-Jurassic boundary sections in the Rocky Mountain front ranges of northeastern British Columbia: implications for biostratigraphy and paleoecology: *Geological Society of America, Abstracts with Programs*, vol. 37, p. 77-76.
- McRoberts, C. 2004. Marine Bivalves and the end-Triassic Mass Extinction: Faunal Turnover, Isotope Anomalies and Implications for the Position of the Triassic/Jurassic Boundary. *Abstracts of the 32nd International Geological Congress, Florence*
- *Hopkin, E.K. and McRoberts, C.A. 2003, Biochronology of Middle and Upper Triassic Halobiid bivalves from Nevada. *Geological Association of Canada, Abstracts of Annual Meeting, Vancouver*, vol. 28, Abstract no. 221.
- McRoberts, C.A. 2003. Late Triassic-Early Jurassic Bivalve Biochronology and Bioevents from Northeast British Columbia, Canada. *Geological Association of Canada, Abstracts of Annual Meeting, Vancouver*, vol. 28, Abstract no. 224.
- Atudorei, V., Orchard, M. Zonneveld, J.-P., McRoberts, C. and Boyd, A. 2003. The carbon isotope record and the Triassic-Jurassic transition in northeast British Columbia, Canada. *Geological Association of Canada, Abstracts of Annual Meeting, Vancouver*, vol. 28, Abstract no. 651.
- Zonneveld, J.-P., Orchard, M.J., Tozer, E.T., Atudorei, V.N., McRoberts, C.A., Henderson, C.M., & Gingras, M.K. 2003. The Upper Triassic at Williston Lake, Northeastern British Columbia, Canada: Constraints on physical boundaries at a classic biochronology locale. *Geological Association of Canada, Abstracts of Annual Meeting, Vancouver*, vol. 28, Abstract no. 677.
- McRoberts, C.A. 2001. Paleobiology of the Triassic "flat clam" *Halobia* in oxygen-deficient marine facies. *Geological Society of America, Abstracts with Programs*, v. 33, no. 2, p. A-8.
- McRoberts, C.A., Orchard, M, Hall, R., Tozer, E. and Zonneveld, J.P, 2001. Biochronology of the Triassic/Jurassic Transition in Northeast British Columbia, Canada. *Program and Abstracts, 1st Workshop of IGCP Project 458, October 13-17, 2001, Taunton, England*, p. 16.
- McRoberts, C.A. 2001. Triassic bivalves and beginning of a revolution: A role for predators? *Program and Abstracts of the 8th North American Paleontological Convention, Museum of Paleontology, University of California, Berkeley. PaleoBios*, vol. 21 (suppl.), p. 92.
- *Shaner, J. S., and McRoberts, C.A. 2000. The life history of the Late Triassic "flat clam" *Monotis subcircularis*: taphonomic evidence from British Columbia. *Geological Society of America, Abstracts with Programs*, vol. 32(2): p. A-73.
- Blodgett, R. B., Wilson, F., Stanley, G.D., McRoberts, C.A., and Sandy, M. 2000. Upper Triassic stratigraphy and fauna of the Taylor Mountains D-2 and D-3 quadrangles (SW part of the Farewell Terrane), southwest Alaska. *Geological Society of America, Abstracts with Programs*, vol. 32, no. 6, p. A-4.
- McRoberts, C.A. 1999. Bivalve diversity and the marine Mesozoic radiation. *Geological Society of America, Abstracts with Programs*, vol. 31, no. 7, p. A-398

- McRoberts, C.A. and *Charles, M. 1999. Bivalve diversity and the marine Mesozoic radiation from western North America. *Geological Society of America, Abstracts with Programs*, vol. 31, no. 2, p. A-57.
- McRoberts, C.A. 1998. The Triassic-Jurassic boundary and the end-Triassic mass extinction. *Abstracts of the 5th International Symposium on the Jurassic System*, International Union of Geological Sciences. Vancouver, p. 59.
- McRoberts, C.A. 1997. Faunal gaps, recovery faunas, and the Triassic-Jurassic mass extinction, *In* C.M. González-León and G.D. Stanley, (eds.), US—Mexico Cooperative Research: International Workshop on the Geology of Sonora, Memoir, Universidad Nacional Autónoma de México, p. 52-54.
- McRoberts, C.A. 1996. Extinction and survivorship of bivalve genera from the European Triassic. *Geological Society of America, Abstracts with Programs*, vol. 28, p. 430.
- McRoberts, C.A. 1995. Extinction and survivorship of bivalves across the Triassic-Jurassic boundary in Alpine Europe. *Abstracts of the Annual Meeting of the Palaeontological Society (Galway, Ireland)*, p. 19.
- McRoberts, C.A. and Newell, N.D. 1995. Phylogeny and cladistic clutter of Paleozoic and Early Mesozoic marine Myalinidae. *The Fifth Canadian Paleontology Conference and International Symposium on the Paleobiology and Evolution of the Bivalvia*, Geological Association of Canada, p. 21.
- McRoberts, C.A. and Newton, C.R. 1994. Triassic-Jurassic Extinction of European bivalves. *Geological Society of America, Abstracts with Programs*, vol. 26, p. A-396
- McRoberts, C.A. and Good, S. 1993. Diversity of some marine and non marine bivalves across the Late Triassic Carnian-Norian interval, western North America. *Geological Society of America, Abstracts with Programs*, vol. 25, p. A-332
- McRoberts, C.A. 1993. Late Triassic - Early Jurassic Paleoenvironments and bivalve extinction from Lombardia (southern Alps, Italy). *International Symposium: Carboniferous to Jurassic Pangea*, Canadian Society of Petroleum Geologists, p. 203.
- McRoberts, C.A. 1992. Late Triassic succession of North American halobiid bivalves and their circum-Pacific correlation, *In*: S. Lidgard and Crane, P. (eds.), *Program and Abstracts of the 5th North American Paleontological Convention*, Field Museum of Natural History, Paleontological Society Special Publication 6, p. 207.
- McRoberts, C.A. 1990. Late Triassic *Gryphaea* (Bivalvia) from the North American Cordillera. *Geological Society of America, Abstracts with Programs*, vol. 22, p. 304..
- Stanley G.D., and McRoberts, C.A., 1990, Early Jurassic reef on an island arc in the Telkwa Range, Canadian Cordillera, B.C.: the first post-extinction coral reef: *Geological Society of America, Abstracts with Programs*, vol. 22, p. 305.
- McRoberts, C.A. 1990. Systematics and paleoecology of Late Triassic halobiid bivalves from the Martin Bridge Limestone, Oregon. *Geological Society of America, Abstracts with Programs*, vol. 22, p. 38.