

CURRICULUM VITAE: PAUL MYROW

Department of Geology
The Colorado College
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Colorado Springs, CO 80903

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Colorado Springs, CO 80903

EDUCATION

Doctor of Philosophy, Earth Science, 1987, Memorial University of Newfoundland, St. John's, Newfoundland. Thesis Title: Sedimentology and depositional history of the Chapel Island Formation [late Precambrian—Early Cambrian], southeast Newfoundland.

Master of Science, Geology, 1983, The University of Vermont, Burlington, Vermont. Thesis Title: Paleoenvironmental analysis of the Cheshire Formation, west central Vermont

Bachelor of Science, Geology, 1980, Colgate University, Hamilton, New York.

WORK EXPERIENCE

9/00-Present Full Professor of Geology, The Colorado College. Responsible for the following courses: Sedimentation and Stratigraphy, Invertebrate Paleontology, Historical Geology, Sedimentary Petrology, Historical Geology, Introductory Geology, Oceanography, Natural Science, Regional Geology, Marine Geology.

4/20-6/20 Visiting Professor of Geology, California Institute of Technology.

1/10-5/10 Visiting Crosby Lecturer, Massachusetts Institute of Technology

9/09-12/09 Visiting Professor of Geology, California Institute of Technology.

9/93-9/00 Associate Professor of Geology, The Colorado College.

9/87-9/93 Assistant Professor of Geology, The Colorado College.

3/91 Crosby Lecturer, Massachusetts Institute of Technology.

GRANTS

National Science Foundation, Geology and Paleontology Division, Principal Investigator, \$156,026, 3 Year Award: " Collaborative Research: Testing models for early Paleozoic deposition, volcanism, and biotas of Sibumasu: Implications for Tectonics and Paleogeography," 2019–2022.

UNESCO–International Geoscience Program IGCP668, Principal Investigator, \$50,000: "Equatorial Gondwanan History and Early Palaeozoic Evolutionary Dynamic," February 2018.

National Aeronautics and Space Administration, \$29,671, 3 Year Award: "Catching the 'Second Wave' of the Ediacara Biota: Assessing the Role of Environment, Ecology and Diagenesis," 2014-2017.

National Science Foundation, EAR–Geomorphology, Principal Investigator, \$159,070, 3 Year Award: " Collaborative research: Laboratory and numerical experiments on the response of wave ripples to changes in oscillatory flow," 2012–2015.

National Science Foundation, Geology and Paleontology Division, Principal Investigator, \$59,985, 3 Year Award: "Collaborative research: Testing Himalayan tectonic and erosional history via chronostratigraphic correlation between the Lesser Himalaya and Indian craton," 2011–2014.

National Science Foundation, R.U.I. Geology and Paleontology Division, Principal Investigator, \$121,396, 3 Year Award: " Collaborative Research: Stratigraphic test of the tectonic assembly of equatorial peri-Gondwanaland: A Himalayan perspective", 2006–2009.

National Science Foundation, R.U.I. Geology and Paleontology Division, Principal Investigator, \$53,987, 2 Year Award: " Collaborative Research: High-Density Combined Flows and Bedforms", 2003–2005.

National Science Foundation, R.U.I. Paleontology/Stratigraphy Research Grant, Principal Investigator, \$114,987, 3 Year Award: " Collaborative Research: The Neoproterozoic and Cambrian of the Tethyan Himalaya: a Test of Core Gondwanan Construction", 2000–2003.

[Informal Co-Investigator] National Science Foundation, Structure and Tectonics Research Grant, \$280,260, 3 Year Award: "Structure and Sedimentology of the Beardmore Group, Antarctica: Latest Neoproterozoic to early Paleozoic Tectonic Evolution of the East Antarctic Margin", PI Dr. John Goodge, SMU, 1998–2001.

National Science Foundation, R.U.I. Paleontology/Stratigraphy Research Grant, Principal Investigator, \$71,200, 3 Year Award: "Collaborative Research: Integrated Stratigraphic Study of Cambrian–Ordovician Inner Shelf Facies of the Western United States", 1999-2002.

National Science Foundation, R.U.I. Paleontology/Stratigraphy Research Grant, Principal Investigator, \$90,800, 2 Year Award (extended to 3 yrs): "Integrated Stratigraphic and Sedimentological Analysis of the Cambro-Ordovician Inner Shelf, Colorado", 1995-1998.

American Chemical Society Petroleum Research Fund, \$24,450 two-year award: "Cambrian Tidal Sand Waves: Geometry, Sediment Dynamics and Reservoir Potential", 1994–1996.

Union Pacific Resources Company, \$2,100: "Cambrian Tidal Sandwaves", 1994.

American Chemical Society Petroleum Research Fund, \$18,000 two-year award: "Sedimentology of the Lower Paleozoic of Central Colorado", 1990–1993.

National Science Foundation, E.A.R., Paleontology/Stratigraphy Research Grant, Co-Investigator, \$90,000, 3 Year Award: "Basin Evolution and Biostratigraphy of the Lower and

Middle Cambrian, Avalonian North America". Principal Investigator Ed Landing, New York State Paleontologist, New York State Survey, 1989-1991.

AWARDS

Geological Society of America Bulletin, Exceptional Reviewer, 2017.

Best Paper Prize, 2015, "Himalayan Cambrian brachiopods", *Papers in Palaeontology*.
Systematic monograph series of UK Palaeontological Association.

Verner Z. Reed Professor of Natural Sciences, Colorado College, 2010–2013

Geological Society of America Fellow, 2010.

Geological Society of America Bulletin, Exceptional Reviewer, 2008.

The John D. and Catherine T. MacArthur Professorship at Colorado College, 1990-1992.
Position includes release time, summer salary, equipment purchases, travel expenses, publication costs, and research assistance.

Best Paper Award for the Journal of Paleontology, 1989, presented by the Paleontological Society Council for "The Placentian Series: appearance of the oldest skeletalized faunas in southeastern Newfoundland" by Landing, E., Myrow, P., Benus, A., and Narbonne, G.

INVITED LECTURES

Middle Ordovician mass-transport deposits from western Inner Mongolia: mechanisms and implications for basin evolution: 39th Annual GCSSEPM Foundation Perkins-Rosen Research Conference, December 5, 2023.

"Dynamics of bedforms under changing flow conditions: theory, experiments, and the stratigraphic record", University of California, Santa Barbara, May 12, 2022.

"Proterozoic to Middle Ordovician tectonic and depositional history of the North China Platform", University of California, Riverside, May 4, 2022.

"Bedforms under changing flow conditions: modern, experimental, and stratigraphic analyses", California Institute of Technology, April 25, 2022.

"Theoretical, experimental, and stratigraphic analysis of bedform behavior under changing flow conditions", Texas A&M University, April 7, 2022

"The behavior of dunes and ripples under changing flow conditions: modern, experimental, and stratigraphic analyses", Washington University, St. Louis April 21, 2022

"Extreme rates of sea level rise during Snowball-Earth deglaciation", Yale University, February 24, 2020.

“Bedforms and stratification: Equilibria and disequilibria”, Yale University, February 18, 2020.

“Storm-deposited bedforms and stratification”, Yale University, February 19, 2020.

“Sequence and Seismic Stratigraphy: Case study from Proterozoic of northern Canada”, Yale University, February 20, 2020.

“Early Paleozoic tectonic and depositional history of the Himalaya”, Dartmouth College, February 13, 2020.

“Ordovician–Silurian boundary strata of the Indian Himalaya and implications for inter-regional correlations”, Yangon, Myanmar, January 8, 2020.

“Storm-Deposited Bedforms and Stratification: Insights from the Laboratory and Field”, College of Energy, China University of Geosciences (Beijing), June 7, 2019.

“Timing and Nature of Late-Stage Gondwanan Assembly and Peri-Gondwanan Tectonic Activity”, University of Texas, Austin, April 18, 2019.

“Experimental and Field Study of Flow Disequilibria with Bedforms: New Approaches to the Study of Bedforms and Stratification”, Johns Hopkins University, March 2, 2018.

“Storm-Deposited Bedforms and Stratification: Controversies and Insights from the Laboratory and Field”, Exxon Research Production, January 10, 2017.

“Storm deposition: Controversies and insights from the laboratories, oceans, and field”, Lafayette College, January 29, 2016.

“Timing and nature of late-stage Gondwanan assembly and peri-Gondwanan tectonic activity: Records from multiple continents”, Yale University, January 20, 2016.

“The dynamic early Paleozoic world of Colorado: Faunas, environments, tectonics, and large earthquakes”, Denver Museum of Nature and Science, August 18, 2015.

“Integrated stratigraphic, geochronologic, and geochemical model for Neogene tectonics of the Himalaya: Implications for the marine isotopic record”, University of Pennsylvania, March 27, 2015.

“The Geologic Record of Storms: Overview and case study of the Minturn Formation, Central Colorado”, Colorado State University, February 24, 2014.

“Assembly of Gondwanaland: an Antarctic and Himalayan Perspective”, University of Barcelona, January 30, 2014

“The Geologic Record of Storms”, Woods Hole Oceanographic Institute, January 14, 2014.

“Signatures of the amalgamation of Gondwanaland: Antarctica and Himalaya”, Jodhpur University, India, December 5, 2012.

- "Depositional, Geochronological, and Tectonic Signatures of the Amalgamation of Gondwanaland: A Himalayan and Antarctic Perspective", Colgate University, November 27, 2012.
- "Onset of uplift of the Lesser Himalaya: Depositional and Erosional History of the Northern Indian Margin", Washington University of St. Louis, March 1, 2012.
- "Depositional Dynamics of a Highstand Prodeltaic System in the Pennsylvanian Minturn Formation of the Central Colorado Basin: Deposits of Wave-Influenced Turbidity Currents", Rocky Mountain Association of Geologists and SEPM, March 29, 2011.
- "Depositional, geochronological, and tectonic record of the Cambrian Ross Orogeny, Antarctica", Korea Polar Research Institute, Incheon, Korea, March 14, 2011.
- "Lower Paleozoic depositional history and tectonics of the Himalaya: Implications for Neogene uplift and marine isotopic records", Memorial University of Newfoundland, St. John's, Newfoundland, October 1, 2010.
- "Stratigraphy and geochronology of lower Paleozoic rocks of the Himalaya: implications for Neogene uplift and marine isotopic records", Australia National University, Canberra, Australia, August 12, 2010.
- "Sedimentology, Paleontology, and Geochronology of Cambrian rocks of the Himalaya: India to Bhutan", Smith College, North Hampton, MA, April 22, 2010.
- "Using sedimentary successions and geochronologic data to constrain Himalaya tectonics, uplift, and erosion: Beyond the lithotectonic concept", Harvard University, Cambridge, MA, March 1, 2010.
- "Lithotectonic zones of the Himalaya: Use of stratigraphic and geochronologic data to constrain Neogene uplift history and ocean geochemistry", Massachusetts Institute of Technology, Cambridge, MA, February 26, 2010.
- "Unusual depositional dynamics of cyclic Cambrian deposits: Biomere trilobite extinctions and the demise of the inner detrital belt of North America", University of California, Riverside, Riverside, CA, December 8, 2009.
- "Early uplift of the Ross orogen, Antarctica: stratigraphy and detrital zircon geochronology", California Institute of Technology, Pasadena, CA, November 17, 2009.
- "The northern margin of East Gondwanaland: Stratigraphic and geochronologic constraints on Himalayan reconstructions", University of California, Los Angeles, CA, November 4, 2009.
- "Integrated stratigraphic and geochronologic approach to understanding the geologic history of the Himalaya: Limitations of the lithotectonic concept", California Institute of Technology, Pasadena, CA, October 4, 2009.

- "The Cambrian–Ordovician boundary interval from Montana to Texas: cyclic sedimentation, biotite trilobite extinctions, and the demise of the inner detrital belt". University of Montana, Winston–Thompson Symposium, Missoula, MT, September 11, 2009.
- "Early tectonics of the Himalaya". Stanford University, Stanford, CA, October 24, 2008
- "Hyperpycnal flow deposits of the Pennsylvanian Minturn Formation, Central Colorado Basin". Stanford University, Stanford, CA, October 23, 2008
- "Cambrian of the Himalaya: Controversies and Gondwanan Reconstructions". Pomona College, Pomona, CA, March 26, 2008.
- "Early Paleozoic Orogenic and Sedimentary History of the Himalayas". California Institute of Technology, Pasadena, CA, March 14, 2008.
- "The Sedimentary Signal of Gondwanan Assembly". University of Texas, Austin, TX, February 18, 2008.
- "Building Gondwanaland: the record of Cambrian mountain building in Antarctica and the Himalayas". University of California, Davis, CA, April 14, 2006.
- "A controversial early Paleozoic tectonic event in the Himalayas: record from northern India". University of Minnesota, Duluth, MN, March 9, 2006.
- "The geologic record of storm events". University of Minnesota, Duluth, MN, March 10, 2006.
- "The record of ancient storms: an example from the Pennsylvanian Fountain Formation of central Colorado". University of Northern Colorado, Greeley, CO, November 11, 2005.
- "Gondwanan Assemblage: Views from Antarctica and the Himalayas: An integrated stratigraphic, paleontologic, and geochronologic approach". Yale University, New Haven, CT, September 29, 2004.
- "A fault-bounded depositional basin in central Colorado", Colorado Scientific Society, Golden, CO, September 16, 2004.
- "Paleogeography and high-resolution stratigraphy of Cambrian and Ordovician strata of the Rocky Mountain region". Rocky Mountain Section, SEPM, Denver, CO, January 27, 2004.
- "Early Paleozoic Paleogeography of the Rocky Mountain Region: Myths concerning the birth of the Transcontinental Arch". University of Missouri, Columbia, March 21, 2003.
- "Fallen Arches: Myths Concerning the Early Paleozoic Paleogeography of the Rocky Mountain Region". Arizona State University, November 13, 2002.
- "Neoproterozoic to Cambrian history of the Transantarctics: Rodinian Breakup to Gondwanan Assembly". University of New Mexico, March 26, 2002.
- "Cambrian of Antarctica: Depositional Record of Gondwanan Assembly". Colgate University, February 15, 2001.

- "Wave-modified turbidites from the Cambrian of Antarctica: Evolving views on storm deposition by Oceanographers and Geologists": Lamont Doherty Earth Observatory, Columbia University, January, 2001.
- "Wave-modified turbidites and the production of combined-flow structures": Massachusetts Institute of Technology, October, 2000.
- "Depositional and tectonic history of the Avalon Terrane of Newfoundland": Department of Geology, Southern Methodist University, September, 1998.
- "Sequence stratigraphy, carbon isotope stratigraphy, and biostratigraphy of Cambrian-Ordovician rocks of Colorado": Department of Geology and Geological Engineering, Colorado School of Mines, February, 1998.
- "Dynamics of Storm Deposition": Department of Earth Resources, Colorado State University, January, 1998
- "Neoproterozoic deposits of eastern Newfoundland: Tectonic, paleogeographic, and depositional controls on the carbon isotopic record of post-glacial cap carbonate beds": Department of Geology and Geophysics, University of Wyoming, November, 1997.
- "Physical constraints on the stratigraphic patterns and the emergence of metazoans": Department of Earth and Planetary Sciences, Harvard University, February, 1994.
- "Physical and Biological Changes across the Precambrian—Cambrian Boundary": Department of Earth Sciences, University of Washington, January, 1992.
- "Geologic evidence for the origin of multicellular life": Sigma XI at Colorado Springs, May, 1991.
- "The origin of metazoan life at the Precambrian—Cambrian Boundary": Geology Department, University of Colorado at Boulder, February, 1990.
- "Emergence of metazoans at the Precambrian/Cambrian Boundary": Lecture to the Evolution Colloquium Group, The Colorado College, November, 1989.
- "Sedimentary structures produced under oscillatory and combined-flow and a model for vertical stratification sequences in shallow marine storm-deposits": Geology Department, The University of Vermont, September, 1988.
- "Biostratigraphy of the Precambrian—Cambrian boundary: boundary stratotype from Newfoundland, Canada": Western Interior Paleontological Society, Denver Museum of Natural History, March, 1988.

PROFESSIONAL SOCIETIES

Co-Leader: International Geoscience Program five-year project (IGCP-668) starting 2018 “Equatorial Gondwana History and Early Palaeozoic Evolutionary Dynamics”. IGCP projects by UNESCO and the International Union for Geological Sciences.

Fellow (awarded 2010), Geological Society of America

Sedimentary Geology Division of Geological Society of America: Selection committee for lifetime achievement Sloss Award (3-year term)

Geological Society of America Grants Committee, 1997-1999. Chairman, 1998-1999.

Past Corresponding Member of the Working Group on the Cambrian – Ordovician Boundary, International Union of Geological Sciences and International Geological Correlation Project.

Past Corresponding Member of the Working Group on the Precambrian – Cambrian Boundary, International Union of Geological Sciences and International Geological Correlation Project.

Past Member of the Working Group on the International Union of Geological Sciences and International Geological Correlation Project #303: Late Precambrian – Early Cambrian Event Stratigraphy.

Past corresponding Member of the International Union of Geological Sciences Working Group on the Terminal Proterozoic System.

Past corresponding Member of the International Union of Geological Sciences and International Geological Correlation Project #320: Neoproterozoic Events and Resources.

Member, Society of Economic Paleontologists and Mineralogists.

Member, International Association of Sedimentologists

SENIOR THESES/PROJECTS

Blaize Adler-Ivanbrook: Stratigraphy, Sedimentology, and Chemostratigraphy of Upper Ordovician and D/C-boundary Strata, Cañon City, CO: 2021 [Honors Thesis]

Mingxi Hu: Sedimentology, Stratigraphy, and Carbonate Chemostratigraphy of Lower Devonian to Lower Mississippian Strata in Northern WY, United States: 2021 [Honors Thesis]

Michael Hasson: Physical Stratigraphy, Chemostratigraphy, Paleontology, and Detrital Zircon Geochronology of Lower Paleozoic Strata, Dinosaur National Monument: 2019 [Honors Thesis]

Hannah Runyon: Depositional Systems of Miocene Carbonate Strata, The Majella Platform, Central Apennines, Italy: 2019 [Honors Thesis]

Watsawan (Fai) Chanchai: Magnetic Susceptibility and Mercury Analyses of Ordovician–Silurian Boundary Strata: 2019 [Honors Thesis]

George Fowlkes: Stratigraphy, Geochronology, and Paleontology of the Lower to Middle Paleozoic of Dinosaur National Monument: 2018.

Everett Smith: Experimental Investigations of Surface-Wave-Modified Turbidity Current Dynamics: 2018 [Honors Thesis]

Tristan White: Geochronology of Cambrian rocks of Thailand and Myanmar: 2018 [Honors Thesis]

Tianran Zhang: Sedimentology, Stratigraphy and Geochronology of Mesoproterozoic Strata, Ningxia, China: 2018 [Honors Thesis]

Anne Hakim: Sedimentology, Biostratigraphy, Chemostratigraphy, and Sequence Stratigraphy of Middle Ordovician Strata, Inner Mongolia, China: 2015 [Honors Thesis]

Austin Miller: A Geochemical Investigation of Oxygenation in the Early Ediacaran Oceans at the Type Section of the Sheepbed Formation, Mackenzie Mountains, Northwest Territories, Canada: 2015 [Honors Thesis]

Lauren Williamson: Paleocurrent analysis of the Nanushuk Formation, North Slope, Alaska: 2014

Lauren Dangles: Triassic–Jurassic strata of the Colorado Springs region: 2014

Caleb Birchard: Chemostratigraphy of an Early Ordovician, basal Stairsian Stage, bioturbation extinction event: 2013 [Honors Thesis]

Devon Cole: Sedimentology, Stratigraphy, and Geochemistry of Latest Devonian strata: 2013 [Honors Thesis]

Zachary Snider: Cambrian–Ordovician stratigraphy and paleogeography of the western margin of the North China Block: 2013 [Honors Thesis]

Anne Hanson: Sedimentological, Stratigraphic, and Chemostratigraphic Analysis of Upper Devonian Rocks in Western Colorado: 2012 [Honors Thesis]

Thomas Ashley: Temporal evolution of sand ripples in response to changes in oscillatory flow conditions: 2012 [Honors Thesis]

Julian Springer: Sedimentology, Stratigraphy and Geochemistry in the Snowy Range Formation: 2011 [Honors Thesis]

Anna Phelps: Sedimentology, magnetic susceptibility, and chemostratigraphy of the Chaffee Group, Cement Creek, Colorado: 2010 [Honors Thesis]

Timothy Gibson: Sedimentology, depositional history and detrital zircon geochronology of the Lower Devonian Tsakhir Formation, Shine Jinst Region, Mongolia: 2010 [Honors Thesis]

Andrew Nelson: The progression of sedimentological facies and their control of biogeochemical cycling in the bioluminescent bays of Vieques, Puerto Rico: 2007 [Honors Thesis]

Karri Sicard: Sedimentology, biostratigraphy, and chemostratigraphy of latest Devonian deposits: Rhenish Slate Mountains of west-central Germany: 2007 [Honors Thesis]

Justin Strauss: Sedimentology, biostratigraphy, and chemostratigraphy of the Chaffee Group: 2006 [Honors Thesis]

Jessica Creveling, Chemostratigraphic record of the Late Devonian, and ALFIE, a new positive isotope excursion of the Late Fammenian: 2006 [Honors Thesis]

Rebecca Zentmyer: Origin and significance of travertine terraces from south-central Tibet: 2006 [Honors Thesis]

Claire Lukens: Wave-modified turbidites: Hyperpycnal flow deposits in the Minturn Formation, Central Colorado: 2004 [Honors Thesis]

Kiel Smith: Upper Cambrian and Lower Ordovician of West Texas and Southern New Mexico: Isotopic and Stratigraphic Correlations: 2004 [Honors Thesis]

Rafaello Sacerdoti: Sedimentological and isotopic analysis of the Bliss Formation and lower El Paso Group: southern Franklin Mountains, El Paso, Texas: 2003 [Honors Thesis]

Kathryn Snell: Depositional history of the Cambrian Karsha and Kurgiakh formations, northern India: 2002 [Honors Thesis]

Lauren Tice: Sedimentology and biostratigraphy of Cambrian–Ordovician deposits: northern Wyoming and southern Montana: 2002 [Honors Thesis]

Karl Thompson: Depositional history of the Middle Cambrian Kunzum La Formation, India Himalayas: 2001 [Honors Thesis]

Bonny Hawkins: Sedimentology, biostratigraphy, and chemostratigraphy of Cambrian–Ordovician deposits: northern Wyoming and southern Montana: 2001 [Honors Thesis]

Woody Fischer: Bioimmuration of Ordovician fossils of the Cincinnati of Ohio: 2000 [Honors Thesis]

Bryn Clark: Stratigraphy and depositional history of Cambrian and Ordovician rocks of northeast Wyoming: 2000 [Honors Thesis]

Max Minnerop: Geochronologic analysis of Neoproterozoic rocks of eastern Newfoundland: 2000 [Honors Thesis]

David Kern: Characteristics of the Denver Basin aquifers, Stonegate Development, Denver, CO: 2000

Edith Day: Sedimentology, conodont biostratigraphy, and chemostratigraphy of Cambrian–Ordovician deposits, White River Plateau Area, Colorado: 1999 [Honors Thesis]

Ian Miller: Systematic collection, identification, correlation and leaf margin analysis of the Winthrop Formation Flora: implications for a far-traveled hypothesis for the Winthrop Formation: 1998 [Honors Thesis]

Kristian Benson: Floral diversity and paleoclimate of the latest Cretaceous and early Tertiary deposits, Denver Basin, Colorado: 1998 [Honors Thesis]

Tina Brachle: Stratigraphic analysis of Cambrian–Ordovician rocks from the Sawatch Range, Colorado: 1998 [Honors Thesis]

Jessie Quay: Chemostratigraphic study of Ordovician strata, Front Range of Colorado: 1998.

Ryan Bennet: Sedimentology, conodont biostratigraphy, and chemostratigraphy of Cambrian–Ordovician deposits, Main Elk Creek, Western Colorado: 1998 [Honors Thesis]

Kathleen Tehrany: Ancient Maya terracing in northwest Belize: 1998 [Honors Thesis]

Tobin Hieronymus: Paleocological information from scavenging features on mammalian fossils from the Turtle Cove Member of the John Day Formation, Oregon: 1997 [Honors Thesis]

Jason Davis: Identification of siliceous microfossils of the Manitou Formation: 1997 [Honors Thesis]

Penny Rieke: A sedimentological and stratigraphic study of ancient tidal sandwaves in the Peerless Formation, Manitou Springs, Colorado: 1996 [Honors Thesis]

David Rodland: Following C.D. Walcott: stratigraphy and paleontology of the Ordovician Harding Sandstone, Cañon City, Colorado: 1996 [Honors Thesis]

Jack Denman: Ichnology and Barium chemistry as indicators for paleo-oxygenation, marine productivity, and cyclic stratigraphy in an epeiric basin: 1996 [Honors Thesis]

Randy Czek: Anatomy of a Cambrian tidal sand wave deposit: 1995 [Honors Thesis]

Kristin Van Loon: : Sedimentology and stratigraphy of Cambro–Ordovician strata, north-central Colorado: 1993 [Honors Thesis]

Lisa Greer: Ecological aspects of modern patch reefs on San Salvador Island, Bahamas: 1993, [Honors Thesis]

Kathryn Riesenber: Comparative study of biogenic structures from Modern and ancient eolian deposits, on San Salvador Island: 1993.

Jessica Jackson: Review and analysis of the Denver aquifer near Monument, Colorado: 1992.

Beth McMillan: Interpretation of paleoenvironments of the lower Paleozoic units of the Front Range, El Paso County, CO: 1991 [Honors Thesis]

Timothy Donohou: Sedimentology and petrography of Pleistocene marine and eolian deposits, San Salvador Island, Bahamas: 1991 [Honors Thesis]

Craig Hart: The stratigraphy and petrography of La Loma, Fortuna Basin, southeast Spain: 1990. [Honors Thesis]

Bradley Evans: Sedimentology and stratigraphy of the Cap Barre through Saint Yvon section, Cloridorm Formation, Gaspé Peninsula, Quebec, Canada: 1990 [Honors Thesis]

Douglas Cattell: A petrographic study of the diagenesis of the Sue Point fossil reef, San Salvador Island, Bahamas: 1988.

Constance Hayden: Clay mineralogy and alteration in fluvial facies of the Lebo Member, Fort Union Formation (Paleocene), Custer County, southeastern Montana: 1988.

REFERREED PUBLICATIONS/GUIDEBOOKS (*=CC Student)

In review/press

- Gaines, R.R., **Myrow, P.M.**, Ellis, E.M., Frelich, E., Lombardo, A.J., Faneuff, E., Hakman, A.C., McKenzie, J., Peters, S.E., Lackey, J.S., and Droser, M.L., *in review*, Animals colonized freshwater environments during the early Cambrian: PNAS.
- *Hu, M., **Myrow, P.M.**, Fike, D.A., Di Pasquo, Zatoń, M., Fischer, W.W., and Coates, M., *in press*, Depositional History of Devonian to Lower Mississippian Strata, northern Wyoming and southern Montana: Geological Society of America Bulletin.
- Hughes, N.C., Kolenko, R., **Myrow, P.M.**, and Houck, K., *in press*, Carboniferous trilobites from Colorado: systematics, morphology, and enrolment: Irish Journal of Earth Sciences.
- Myrow, P.M.**, Goodge, J.W., Brock, G.A., Betts, M.J., Park, T.-Y.S., Hughes, N.C., and Gaines, R.R., *in review*, A tectonic trigger to the first major extinction of the Phanerozoic: The early Cambrian Sinsk Event: Science Advances.
- Rivas, R., **Myrow, P.M.**, Smith, E.F., Nelson, L.L., Briggs, D.E.G., and Tarhan, L.G., *in prep.*, Morphology and fossilization of Gaojiashania from the upper Ediacaran Dunfee Member, Deep Springs Formation, Nevada, USA.
- Schoenneman, B., Jughes, N.C., and **Myrow, P.M.**, *in revision*, Eye structure and function in Ameura (Trilobita, later Carboniferous), from Bond Colorado: Irish Journal of Earth Sciences.
- Wang, W., Peng, T., Servais, T., Porter, S.M., Zhu, G., and **Myrow, P.M.**, *in prep.*, Small holes in chitinozoans: insight into enhanced predation pressure during the Ordovician radiation.

Published

128. **Myrow, P.M.**, Hasson, M., Taylor, J.F., Tarhan, L.G., Ramirez, G., Fowlkes, G. and Chen, J., 2023, Structural control of Cambrian paleotopography and patterns of transgression in western Laurentia: Geology, v. 51, p. 521-526.
127. **Myrow, P.M.**, *Hasson, M., Taylor, J.F., Tarhan, L., Fike, D.A., *Ramirez, G., *Fowlkes, G., Popov, L.E., Liu, H., and Chen, J., 2023, Revised Paleozoic depositional history of the central Rocky Mountains: Sedimentary Geology, v. 449, p. 106373.
126. Wernette, S.J., Hughes, **Myrow, P.M.**, and Sarsud, A., 2023, Trilobites of Thailand's Cambrian-Ordovician Tarutao Group and their geological setting: Papers in Paleontology, p. 1-100, doi: 10.1002/spp2.1516.
125. Craddock, J.P., Paulsen, T., Schmitt, R. de S., Johnston, S.T., **Myrow, P.M.**, and Hughes, N.C., 2023, Amalgamation of Gondwana: Calcite Twinning and Finite Strains from the early to late Paleozoic Buzios, Ross, Kurgiak, and Gondwanide Orogens: Geological Society of London, Special Publications, 531, p. SP531-2022.
124. **Myrow, P.M.**, Hughes, N.C., and Singh, B.P., 2023, Ordovician strata of the Indian Subcontinent: Geological Society, London, Special Publications, v. 533, p. SP533-2022.
123. Xin, H., Chen, J., Li, F., and **Myrow, P.M.**, 2023, Spatio-temporal distribution of the Cambrian maceriate reefs across the North China Platform: Palaeogeography, Palaeoclimatology, and Palaeoecology, v. 614, p. 111429.
122. **Myrow, P.M.**, 2022, Book Review: Tectonics of the Indian Subcontinent by Jain, Banerjee, and Kale: Geological Magazine, v. 159, p. 819-820.
121. Di Pasquo, *Hu, M., Zatoń, M., and **Myrow, P.M.**, 2022, Microspores, megaspores, palynofacies, and depositional history of the upper Givetian Maywood Formation, Northern Wyoming, USA: Review of Palaeobotany and Palynology, v. 299, p. 104604.

120. Li, W., Chen, J., *Hakim, A., and **Myrow, P.M.**, 2022, Middle Ordovician mass-transport deposits from the western Inner Mongolia, China: mechanisms and implications for basin evolution: *Sedimentology*, v. 69, p. 1301-1338.
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