

MICHAEL CHARLES RYGEL

CURRICULUM VITAE

CONTACT INFORMATION

Dr. Michael Rygel
Department of Geology
44 Pierrepont Ave.
State University of New York, College at Potsdam
Potsdam, New York, 13676

cell: (315) 212-0963, office: (315) 267-3401, fax: (315) 267-2695
email: rygelmc@potdam.edu
web page: <http://www2.potsdam.edu/rygelmc/Rygel.homepage.htm>

EDUCATION

- **Doctor of Philosophy (Earth Science)**
Dalhousie University, 2005
Dissertation: Alluvial sedimentology and basin analysis of Carboniferous strata near Joggins, Nova Scotia, Atlantic Canada
- **Bachelor of Science (Geology)**
University of Pittsburgh at Johnstown, 2000

EXPERTISE

- Geoscience education
- Facies analysis of shallow marine and terrestrial strata
- Fluvial sedimentology and reservoir architecture
- Sequence stratigraphy
- Basin analysis
- Ichnology
- Geologic mapping
- Geographic Information Systems
- Seismic interpretation

PROFESSIONAL EXPERIENCE

- **Associate Professor**
State University of New York, College at Potsdam
Department of Geology, September 2012 – present
Assistant Professor, September 2006 – August 2012
- **Summer Faculty Member**
Indiana University
Indiana University Geologic Field Station, June 2011 – present
- **Consultant**
Devon Energy
Geoscience Technology, Strategic Services Division, June 2011 – November 2013

- **Post-Doctoral Research Associate**
University of Nebraska-Lincoln
Department of Geosciences, June 2005 – September 2006
- **Geoscience Intern**
ChevronTexaco
Energy Technology Company, Subsurface Characterization Team, Summer 2004
- **Instructor**
Dalhousie University
Department of Civil Engineering, Summer 2004
- **Adjunct Instructor**
University of Pittsburgh at Johnstown
Department of Geology and Planetary Sciences, Spring 2002
- **Graduate Teaching Assistant**
Dalhousie University
Department of Earth Sciences, 2000-2004
- **Associate Instructor**
Indiana University
Department of Geological Sciences, Summer 2000

COURSES TAUGHT

- **Historical Geology (GEOL 204)**
SUNY Potsdam, Spring 2007-present
- **Sedimentary Geology (GEOL 301)**
SUNY Potsdam, Fall 2006 – present
- **Geologic Maps and Cross-Sections (GEOL 303)**
SUNY Potsdam, Fall 2012 – present
- **Geographic Information Systems (GEOL 340)**
SUNY Potsdam, Spring 2008-present
- **Geology of Nova Scotia (GEOL 395)**
SUNY Potsdam, Spring 2009 & 2011
- **Field Geology in the Rocky Mountains (G429)**
Indiana University, Summer 2000 (Associate Instructor); Summer 2011 – present (Instructor)
- **Field Geology (GEOL 300)**
SUNY Potsdam, Fall 2007 – Fall 2011
- **Dynamic Earth (GEOL 125 – formerly “Cycles of Nature”)**
SUNY Potsdam, Fall 2006 – Fall 2010
- **Natural Disasters (GEOL 195)**
SUNY Potsdam, Spring 2007
- **Introduction to Geology for Engineers (MINE 3500)**
Dalhousie University, Summer 2004
- **Explorations in Geology (GEOL 0080)**
University of Pittsburgh at Johnstown, Spring 2002
- **Lab Instruction - Graduate Teaching Assistant**
Dalhousie University, 2000-2004, Lab instruction for Dalhousie Integrated Science Program (DISP: SCIE 1500X/Y.30), Earth Sciences Field School (ERTH 2000.015F), Structural Geology (ERTH 3140), and Sediments and Sedimentary Rocks (ERTH 2203)

PEER-REVIEWED PUBLICATIONS - *Undergraduates under my supervision in italics*

- Rygel, M.C.**, *Sheldon, E.P.*, Stimson, M.R., Calder, J.H., *Ashley, K.T.*, and *Salg, J.*, in press, The Pennsylvanian Springhill Mines Formation: Sedimentological framework of a portion of the Joggins Fossil Cliffs UNESCO World Heritage Site: *Atlantic Geology*.
- Ielpi, A., Gibling, M.R., Bashforth, A., *Lally, C.*, **Rygel, M.C.**, and Al-Silwadi, S., 2014, Early Pennsylvanian braided rivers shaped by woody accumulations: Architecture of the Boss Point Formation, Atlantic Canada: *Sedimentology*. doi: 10.1111/sed.12109.
- Gibling, M.R., Davies, N.S., Falcon-Lang, H.J., Bashforth, A.R., DiMichele, W.A., **Rygel, M.C.**, and Ielpi, A., in press, Palaeozoic Co-Evolution of Rivers and Vegetation: A Synthesis of Current Knowledge: Proceedings of the Geologists Association.
- Allen, J.P., Fielding, C.R., Gibling, M.R., **Rygel, M.C.**, in press, Recognizing products of paleoclimate fluctuation in the fluvial stratigraphic record: an example from the Pennsylvanian to lower Permian of Cape Breton Island, Nova Scotia: *Sedimentology*.
- Allen, J.P., Fielding, C.R., **Rygel, M.C.**, and Gibling, M.R., 2013, Deconvolving signals of tectonic and climatic controls from continental basins: an example from the late Paleozoic Cumberland Basin, Atlantic Canada: *Journal of Sedimentary Research*, v. 83, p. 847-872.
- Tibert, N.E., **Rygel, M.C.**, Sanders, S.C., Elrick, S.D., Nelson, J., 2013, Temporal and spatial distribution of ostracodes across the Pennsylvanian-Permian boundary interval in eastern North America: *International Journal of Coal Geology*, v. 119, p. 93-105.
- Waldron, J.W.F., **Rygel, M.C.**, Gibling, M.R., and Calder, J.H., 2013, Evaporite tectonics and the late Paleozoic stratigraphic development of the Cumberland basin, Appalachians of Atlantic Canada: *Geological Society of America Bulletin*, v. 125, p. 945-960.
- Fielding, C.R., Allen, J.P., Alexander, J., Gibling, M.R., **Rygel, M.C.**, and Calder, J.H., 2011, Fluvial systems and their deposits in the seasonal tropics and subtropics: modern and ancient examples, in Davidson, S., Leleu, S., and North, C. (eds), *From river to rock record; the preservation of fluvial sediments and their subsequent interpretation*, SEPM Special Publication 97, p. 89-111.
- Allen, J.P., Fielding, C.R., Gibling, M.R. and **Rygel, M.C.**, 2011, Fluvial response to paleo-equatorial climate fluctuations during the Late Paleozoic Ice Age: *Geological Society of America Bulletin*, v. 128, p. 1524-1538.
- Davies, N. S., Gibling, M. R., and **Rygel, M. C.**, 2011, Alluvial facies evolution during the Palaeozoic greening of the continents: case studies, conceptual models and modern analogues: *Sedimentology*, v. 58, no. 1, p. 220-258.
- Davies, N. S., **Rygel, M. C.**, and Gibling, M. R., 2011, Marine influence in the Upper Ordovician Juniata Formation (Potters Mills, Pennsylvania); implications for the history of life on land; reply: *Palaios*, v. 26, no. 10, p. 674-676.
- Davies, N.S., **Rygel, M.C.**, and Gibling, M.R., 2010, Marine influence in the Upper Ordovician Juniata Formation (Potters Mills, Pennsylvania): Implications for the history of life on land: *Palaios*, v. 25, p. 527-539.
- Birgenheier, L.P., Frank, T.D., Fielding, C.R., and **Rygel, M.C.**, 2010, Coupled carbon isotopic and sedimentological records from the Permian system of eastern Australia reveal the response of atmospheric carbon dioxide to glacial growth and decay during the late Palaeozoic Ice Age: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 286, p. 178-193.
- Birgenheier, L.P., Fielding, C.R., **Rygel, M.C.**, Frank, T.D., and Roberts, J., 2009, Evidence for dynamic climate change on sub-10⁶-year scales from the Late Paleozoic glacial record, Tamworth Belt, New South Wales, Australia: *Journal of Sedimentary Research*, v. 79, p. 56-82.

- Gibling, M.R., Culshaw, N., **Rygel, M.C.**, and Pascucci, V., 2008, The Maritimes Basin of Atlantic Canada: basin creation and destruction in the collisional zone of Pangea, *in* Miall, A., *Sedimentary Basins of the United States and Canada*, Amsterdam, Elsevier, pp. 211-244.
- Rygel, M.C.**, Fielding, C.R., Bann, K.L., Frank, T.D., Birgenheier, L.P., and Tye, S., 2008, The Lower Permian Wasp Head Formation, Sydney Basin: high-latitude shallow marine sedimentation following the late Asselian-early Sakmarian glacial event in eastern Australia: *Sedimentology*, v. 55, p. 1517-1540.
- Rygel, M.C.**, Fielding, Frank, T.D., and Birgenheier, L.P., 2008, The magnitude of Late Paleozoic glacioeustatic fluctuations: A synthesis: *Journal of Sedimentary Research*, v. 78, p. 500-511.
- Gibling, M.R., and **Rygel, M.C.**, 2008, Late Paleozoic cyclic strata of Euramerica: Gondwanan glacial signatures enhanced during slow-subsidence periods: *in* Fielding, C.R., Frank, T.D., and Isbell, J., *Resolving the Late Paleozoic Ice Age in Time and Space*, Geological Society of America Special Publication 441, p. 219-233.
- Fielding, C.R., Frank, T.D., Birgenheier, L.P., **Rygel, M.C.**, Jones, A.T., and Roberts, J., 2008, Stratigraphic imprint of the Late Palaeozoic Ice Age in eastern Australia: a record of alternating glacial and non-glacial climate regime, *Journal of the Geological Society of London*, v. 165, p. 129-140.
- Fielding, C.R., Frank, T.D., Birgenheier, L.P., **Rygel, M.C.**, Jones, A.T., and Roberts, J., 2008, Stratigraphic record and facies associations of the Late Paleozoic Ice Age in eastern Australia (New South Wales and Queensland), *in* Fielding, C.R., Frank, T.D., and Isbell, J.L., eds., *Resolving the Late Paleozoic Ice Age in Time and Space: Geological Society of America, Special Paper 441*, p. 41-57.
- Frank, T.D., Birgenheier, L.P., Montañez, I.P., Fielding, C.R., and **Rygel, M.C.**, 2008, Late Paleozoic climate dynamics revealed by comparison of ice-proximal stratigraphic and ice-distal isotopic records, *in* Fielding, C.R., Frank, T.D., and Isbell, J.L., eds., *Resolving the Late Paleozoic Ice Age in Time and Space: Geological Society of America, Special Paper 441*, p. 331-342.
- Montañez, I.P., Tabor, N.J., Niemeier, D., DiMichele, W.A., Frank, T.D., Fielding, C.R., Isbell, J.L., Birgenheier, L.P., and **Rygel, M.C.**, 2007, CO₂-forced climate instability and linkages to tropical vegetation during Late Paleozoic deglaciation: *Science*, v. 315, p. 87-91.
- Rygel, M.C.**, and Gibling, M.R., 2006, Natural geomorphic variability recorded in a high-accommodation setting: fluvial architecture of the Pennsylvanian Joggins Formation of Atlantic Canada: *Journal of Sedimentary Research*, v. 76, p. 1230-1251.
- Rygel, M.C.**, Calder, J.H., Gibling, M.R., Gingras, M.K., and Melrose, C.S.A., 2006, Tournaisian forested wetlands in the Horton Group of Atlantic Canada: *in* Greb, S.F., and DiMichele, W.A., eds., *Wetlands Through Time: Geological Society of America, Special Publication 399*, p. 103-126.
- Rygel, M.C.**, and Shipley, B.H., 2005, "Such a section as never was put together before": Logan, Dawson, Lyell, and mid-nineteenth-century measurements of the Joggins section: *Atlantic Geology*, v. 41, p. 87-102.
- Waldron, J.W.F., and **Rygel, M.C.**, 2005, Role of evaporite withdrawal in the preservation of a unique coal-age succession: Joggins section, Nova Scotia: *Geology*, v. 33, no. 5, p. 337-340.
- Calder, J.H., **Rygel, M.C.**, Gibling, M.R., Ryan, R.J., Falcon-Lang, H.J., and Hebert, B., 2005, Stratigraphy and sedimentology of Pennsylvanian red beds near Joggins, Nova Scotia: The proposed Little River Formation with redefinition of the Joggins Formation: *Atlantic Geology*, v. 41, p. 143-167
- Davies, S.J., Gibling, M.R., **Rygel, M.C.**, and Calder, J.H., 2005, The Pennsylvanian Joggins Formation of Nova Scotia: sedimentological log and stratigraphic framework of the historic fossil cliffs: *Atlantic Geology*, v. 41, 115-142.
- Rygel, M.C.**, Gibling, M.R., and Calder, J.H., 2004, Vegetation-induced sedimentary structures from fossil forests in the Pennsylvanian Joggins Formation, Nova Scotia: *Sedimentology*, v. 51, p. 531-552.

- Falcon-Lang, H.J., **Rygel, M.C.**, Calder, J.H., and Gibling, M.R., 2004, An early Pennsylvanian "waterhole" deposit and its fossil biota in a dryland alluvial plain setting, Joggins, Nova Scotia: *Journal of the Geological Society of London*, v. 161, p. 209-222.
- Falcon-Lang, H.J., Gibling, M.R., **Rygel, M.C.**, Calder, J.H., and Davies, S.J., 2004, A dance to the music of time: *Geoscientist*, v. 14, p. 4-9.
- Rygel, M.C.**, and Beuthin, J.D., 2002, Paleopedology of a residual clay associated with the Mississippian-Pennsylvanian (mid-Carboniferous) unconformity, southwestern Pennsylvania: *Southeastern Geology*, v. 41, p.129-143.

REPORTS

- Rygel, M.C.**, 2013, Sedimentology of the Devon Energy Mathers Ranch 157 No. 1H Well, Hemphill County, Texas: Devon Energy Confidential Report.
- Rygel, M.C.**, 2011, Sedimentology of the Devon Energy Lott 1-3H Well, Buffalo Wallow Field, Wheeler County, Texas: Devon Energy Confidential Report DCR 11-07G, 65 p.

FIELDGUIDES

- Calder, J.H., Gibling, M.R., Grey, M., Mukhopadhyay, P.K., **Rygel, M.C.**, Stimson, M.R., 2011, Coals and Organic Deposits of the Joggins Fossil Cliffs World Heritage Site - Field Trip of the Annual Meeting of the Society for Organic Petrology: Nova Scotia Department of Natural Resources, Outside Publication Outside Publication ME 2011-001, 18 p.
- Calder, J.H., Gibling, M.R., and **Rygel, M.C.**, 2005, Field Trip B2 - The Joggins Section, Nova Scotia: "Charles Lyell's Galapagos": Atlantic Geoscience Society, Special Publication 28, 43 p.
- Calder, J.H., **Rygel, M.C.**, Falcon-Lang, H.J., Gibling, M.R., Scott, A.C., 2005, The Joggins cliffs of Nova Scotia: a window into the Carboniferous: North American Paleontological Convention Guidebook, 49 p.

CONFERENCE ABSTRACTS - *Undergraduates under my supervision in italics*

2013

- Gibling, M.R., Davies, N.S., Ielpi, A., Simon, S., Bashforth, A., and **Rygel, M.C.**, 2013, Fluvial style and vegetation abundance as a paleoclimate proxy in the Pennsylvanian and early Permian: an evaluation of preservational issues: Geological Society of America, Abstracts with Programs, v. 45, no. 7, p. 301.
- Ielpi, A., Gibling, M.R., Bashforth, A.R., *Lally, C.*, **Rygel, M.C.**, Al-Siwaldi, S., 2013. Architecture of Pennsylvanian vegetation-influenced braided rivers: the Boss Point Formation of Atlantic Canada. 10th International Conference on Fluvial Sedimentology, Leeds, U.K., Abstracts Volume.
- Lally, C.*, *Brewer, A.*, and **Rygel, M.C.**, 2013, Sedimentology of the Boss Point Formation (Pennsylvanian), Cumberland Basin, Nova Scotia: Geological Society of America, Abstracts with Programs, v. 145, p. 141. – poster also presented at SUNY Potsdam Learning and Research Fair.
- Rygel, M.C.**, 2013, Share and share alike: using Wikimedia Commons to disseminate geophotography: Geological Society of America, Abstracts with Programs, v. 45, no. 7, p. 381.
- Wagner, E. E.*, **Rygel, M.C.**, Hebert, B.L., and O'Brien, N. R., 2013, Pyritization of a Stigmaria from the Boss Point Formation (Pennsylvanian), Nova Scotia: Geological Society of America, Abstracts with Programs, v. 45, no. 7, p. 589.

2011

- Badger, R.L., Amati, L., Greene, R. A., Kelson, C.R., **Rygel, M.C.**, and Revetta, F., 2011, Outreach programs as a means of long-range recruiting: Geological Society of America, Abstracts with Programs, v. 43, p. 145.
- Brewer, A. and **Rygel, M.C.**, 2011, Sandstone petrography of the Pennsylvanian Cumberland Group, Cumberland Basin, Nova Scotia: Geological Society of America, Abstracts with Programs.
– poster also presented at SUNY Potsdam Learning and Research Fair.
- Rygel, M.C.**, 2011, Wikimedia Commons: a global repository for geologic images: Geological Society of America, Abstracts with Programs, v. 43, p. 55.
- Sweeney, S., Armitage, J., **Rygel, M.C.**, and Badger, R.L., 2011, New cores and outcrops prove that there is not any Potsdam Sandstone beneath the village of Potsdam, SUNY Potsdam Learning and Research Fair, p. 31.

2010

- Brewer, A., Brink, R.A., Sheldon, E.P., Stephan, E.L., and **Rygel, M.C.**, 2010, Petrography of the Mabou and Cumberland Groups (Carboniferous), Cumberland Basin, Nova Scotia, SUNY Potsdam Learning and Research Fair, p. 35.
- Brink, R.A., Sheldon, E.P., Stephan, E.L., Morris, E., and **Rygel, M.C.**, 2010, Pennsylvanian terrestrial ecosystems: A field guide to the Springhill Mines and Ragged Reef Formations, Cumberland Basin, Nova Scotia: Geological Society of America, Abstracts with Programs, v. 42, p. 72.
- Davies, N.S., **Rygel, M.C.**, and Gibling, M.R., 2010, Not the oldest evidence for complex life on land: the Juniata Formation (Upper Ordovician, Pennsylvania): Atlantic Geology, v. 46, p. 47.
- Richard, C.L., Pykles, B.C., **Rygel, M.C.**, and McBride, J.H., 2010, Applicability of Ground Penetrating Radar (GPR) and Geographic Information Systems (GIS) for Documenting and Visualizing Historic Mormon Nauvoo, Illinois: Society for Historical Archaeology Meeting: Amelia Island, Florida.
- Rockefeller, D., **Rygel, M.C.**, and Brown, W., 2010, Human impact in the area surrounding the Hadley Mountain Firetower, SUNY Potsdam Learning and Research Fair, p. 35-36.
- Rygel, M.C.**, 2010, The geology of Nova Scotia: one of the premier field trips in eastern North America: Geological Society of America, Abstracts with Programs, v. 42, p. 389.
- Sheldon, E.P., Stephan, E.L., Brink, R.A., Brewer, A., and **Rygel, M.C.**, 2010, Fluvial Sedimentology of the Pennsylvanian Joggins, Springhill Mines, and Ragged Reef Formations: Exploring the relationship between paleogeomorphology, Walther's Law, tectonism, and climate change: Geological Society of America, Abstracts with Programs, v. 42, p. 72.
- Sheldon, E.P., Brink, R.A., Stephan, E.L., Brewer, A., and **Rygel, M.C.**, 2010, Fluvial sedimentology of the Pennsylvanian Joggins, Springhill Mines, and Ragged Reef Formations: SUNY Potsdam Learning and Research Fair, p. 36.
- Slane, D.C., 2010, Marginal Marine Facies of the Catskill Formation (Upper Devonian), Tioga County, PA: Collegiate Science and Technology Entry Program, 18th Annual Statewide Student Conference, Bolton Landing, NY, p. 50.
- Slane, D.C., and **Rygel, M.C.**, 2010, Marginal-marine facies of the Catskill Formation (Upper Devonian), Tioga County, PA, SUNY Potsdam Learning and Research Fair, p. 36-37.
- Stephan, E.L., 2010, Sedimentology of the Pennsylvanian Ragged Reef Formation, Cumberland Basin, Nova Scotia, Collegiate Science and Technology Entry Program, 18th Annual Statewide Student Conference, Bolton Landing, NY, p. 50.
- Werlau, A., and **Rygel, M.C.**, 2010, A digital bedrock geology map of New York State, SUNY Potsdam Learning and Research Fair, p. 37.

2009

- Ashley, K.T., Stephan, E.L., Salg, J., and **Rygel, M.C.**, 2009, Depositional Environments and alluvial architecture of the Springhill Mines Formation (Pennsylvanian), Cumberland Basin, Nova Scotia: Geological Society of

America - Abstracts with Programs, v. 41, no. 3, p. 27.

– poster also presented at SUNY Potsdam Learning and Research Fair.

Brink, R.A., and **Rygel, M.C.**, 2009, Basin-margin facies of the Pennsylvanian Ragged Reef Formation, Cumberland Basin, Nova Scotia: Geological Society of America, Abstracts with Programs, v. 41, p. 145.

Sheldon, E.P., and **Rygel, M.C.**, 2009, The Pennsylvanian Springhill Mines Formation: meandering fluvial systems in a cyclic, coal-bearing succession: Geological Society of America, Abstracts with Programs, v. 41, p. 145.

Sheldon, E., Ashley, K.T., and **Rygel, M.C.**, 2009, The Springhill Mines Formation, Cumberland Basin, Nova Scotia: evolution of channel body architecture within a Pennsylvanian fluvial system: Geological Society of America - Abstracts with Programs, v. 41, no. 3, p. 27.

– poster also presented at SUNY Potsdam Learning and Research Fair.

Slane, D.C., and **Rygel, M.C.**, 2009, Marginal-marine facies of the Catskill Formation (Upper Devonian), Tioga County, Pennsylvania: Geological Society of America, Abstracts with Programs, v. 41, p. 145.

Stephan, E.L., and **Rygel, M.C.**, 2009, Coarse-grained meandering fluvial systems of the Pennsylvanian Ragged Reef Formation, Cumberland Basin, Nova Scotia: Geological Society of America, Abstracts with Programs, v. 41, p. 145.

Stephan, E.L., Ashley, K.T., and **Rygel, M.C.**, 2009, Sedimentology of the Pennsylvanian Ragged Reef Formation, Cumberland Basin, Nova Scotia: Geological Society of America, Abstracts with Programs, v. 41, no. 3, p. 27.

– poster also presented at SUNY Potsdam Learning and Research Fair.

2008

Rygel, M.C., and Ashley, K.T., 2008, Sedimentary Rocks in Thin Section, SUNY Potsdam Learning and Research Fair.

Allen, J., Fielding, C.R., **Rygel, M.C.**, and Gibling, M.R., 2008, Fluvial instability in the paleoequatorial realm of Atlantic Canada during the Late Carboniferous to Early Permian. A record of global climate variation?, Geological Society of America Abstracts with Programs, p. 535.

Blumberg, E., Chiarenzelli, J., Husinec, A., and **Rygel, M.C.**, 2008, Insight from cores in the Potsdam Group, northern New York: Geological Society of America Abstracts with Programs, v. 40, p. 82.

Remington, K., Daeschler, E.B., and **Rygel, M.C.**, 2008, Sedimentology of an *Archanodon*-bearing channel body in the Catskill Formation (Upper Devonian) near Steam Valley, PA: Geological Society of America Abstracts with Programs, v. 40, p. 82.

Salg, J., and **Rygel, M.C.**, 2008, Sedimentology of the lower Springhill Mines Formation, Cumberland Basin, Nova Scotia: Geological Society of America Abstracts with Programs, v. 40, p. 82.

– poster also presented at SUNY Potsdam Learning and Research Fair.

2007

Rygel, M.C., Fielding, C.R., Frank, T.D., and Birgenheier, L.P., 2007, New insight into the timing, dynamics, and consequences of Late Paleozoic glaciation: Geological Society of America Abstracts with Programs, v. 39, No. 6, p. 354. - invited keynote speech.

Rygel, M.C., Fielding, C.R., Frank, T.D., and Birgenheier, L.P., 2007, Late Paleozoic sea-level fluctuations: a closer look at glacioeustasy in an icehouse world: Geological Society of America Abstracts with Programs, v. 39, No. 6, p. 86.

- Rygel, M.C.**, Gibling, M.R., and Calder, J.H., 2007, Vegetation-induced sedimentary structures (VISS): The influence of in-situ plants on sedimentary systems: International Geological Correlation Programme, Meeting for Project 469 – Late Variscan terrestrial biotas and palaeoenvironments, Abstract Volume.
- Rygel, M.C.**, and Waldron, J.W.F., 2007, Tectonostratigraphic history of the Cumberland Basin, Nova Scotia: extension, shortening, and salt tectonics in a "strike-slip" basin: Geological Society of America Abstracts with Programs, v. 39, p. 77-78.
- Allen, J., Fielding, C.R., **Rygel, M.C.**, and Gibling, M.R., 2007, Comparison of fluvial styles within the late Carboniferous succession of the Maritimes Basin, Atlantic Canada: Towards a refined understanding of palaeoclimate: American Association of Petroleum Geologists Annual Convention and Exhibition, April 1-4, Long Beach, CA.
- Birgenheier, L.P., Fielding, C.R., Frank, T.D., and **Rygel, M.C.**, 2007, Nested cyclicity in the Carboniferous glacial record from New South Wales, Australia: American Association of Petroleum Geologists Annual Meeting and Convention, April 1-4, Long Beach, CA.
- Birgenheier, L.P., Fielding, C.R., **Rygel, M.C.**, Frank, T.D., 2007, Evidence for dynamic climate change on timescales of <1-5.5 M.Y. from the Carboniferous ice-proximal record, New South Wales, Australia: Geological Society of America Abstracts with Programs, v. 39, no. 6, p. 354-355.

2006

- Rygel, M.C., Fielding, C.R., Frank, T.D., and Birgenheier, L.P., 2006, The magnitude of Carboniferous-Permian glacioeustatic fluctuations: a review: Geological Society of America Abstracts with Programs, v. 38, no. 7, p. 315.
- Rygel, M.C., Fielding, C.R., Bann, K.L., Frank, T.D., and Birgenheier, L.P., 2006, High-latitude, shallow marine sedimentation during the Late Paleozoic Gondwanan Ice Age: The Early Permian Wasp Head Formation, Sydney Basin, Australia: American Association of Petroleum Geologists Annual Meeting, April 9-12.
- Rygel, M.C., and Gibling, M.R., 2006, Channel bodies of the Pennsylvanian Joggins Formation: A unique opportunity to compare internal architecture and external form: American Association of Petroleum Geologists Annual Meeting, April 9-12.
- Birgenheier, L.P., Frank, T.D., Fielding, C.R., and **Rygel, M.C.**, 2006, The Permian stable isotope record from ice-proximal localities in eastern Australia: a proxy for Late Paleozoic climate change: Geological Society of America Abstracts with Programs, v. 38, p. 317.
- Birgenheier, L.P., Fielding, C.R., Frank, T.D., **Rygel, M.C.**, and Roberts, J., 2006, Lithologic consequences of glacially influenced deposition: A case study from the Late Paleozoic of New South Wales, Australia: American Association of Petroleum Geologists Annual Meeting, April 9-12, p. 10.
- Calder, J.H., Gibling, M.R., Naylor, R.D., **Rygel, M.C.**, and Waldron, J.W.F., 2006, Current views on the geology of Nova Scotia's Coal Basins, *in* MacDonald, D.R., ed., Mining Matters 2006, November 9-10, Halifax, Nova Scotia, Nova Scotia Department of Natural Resources, Mineral Resources Branch, Report ME 2006-2, p. 1.
- Fielding, C.R., Allen, J., **Rygel, M.C.**, Birgenheier, L.P., and Frank, T.D., 2007, Stratigraphic signatures of icehouse climate regimes: the Permian record of eastern Australia: American Association of Petroleum Geologists Annual Meeting and Convention, April 1-4, Long Beach, CA.
- Fielding, C.R., Frank, T.D., **Rygel, M.C.**, Birgenheier, L.P., Isbell, J.L., Koch, Z., Henry, L.C., 2007, Reconciling the timing, duration and character of Late Paleozoic Gondwanan glaciations: relevance to the midcontinent North American stratigraphic record: Geological Society of America, Abstracts with Programs, v. 39, no. 3, p. 19.
- Fielding, C.R., **Rygel, M.C.**, Frank, T.D., Birgenheier, L.P., Jones, A.T., and Roberts, J., 2006, Near-field stratigraphic record from the Late Paleozoic Gondwanan Ice Age from eastern Australia discloses multiple,

alternating glacial and non-glacial intervals: Geological Society of America Abstracts with Programs, v. 38, p. 317.

Fielding, C.R., Bann, K.L., MacEachern, J.A., Frank, T.D., and **Rygel, M.C.**, 2006, Stratigraphic stacking patterns through a protracted icehouse interval disclose alternating glacial and non-glacial periods: the Permian of eastern Australia: American Association of Petroleum Geologists Annual Meeting, April 9-12, p. 32.

Frank, T.D., Birgenheier, L.P., Fielding, C.R., and **Rygel, M.C.**, 2006, Near-field stratigraphic record of the Late Paleozoic Gondwanan Ice Age from eastern Australia provides a framework for examining far-field stable isotope records: Geological Society of America Abstracts with Programs, v. 38, p. 317.

Waldron, J.W.F., **Rygel, M.C.**, and Roselli, C, 2006, Strike-slip faults and salt tectonics in the evolution of the late Paleozoic Maritimes Basin, Northern Appalachians of Atlantic Canada: Geological Society of America Northeastern Section Meeting, Camp Hill, PA, March 20-22.

2005

Rygel, M.C., Gibling, M.R., Davies, S.J., Falcon-Lang, H.J., Calder, J.H., and Waldron, J.W.F., 2005, The Pennsylvanian Joggins Formation of Nova Scotia: nature and origin of cyclic sedimentation in a rapidly subsiding depocenter: Geological Society of America Abstracts with Programs, v. 37, no. 7, p. 255.

Rygel, M.C., Gibling, M.R., and Calder, J.H., 2005, The fossil record of plant-sediment interaction: vegetation-induced sedimentary structures from the Pennsylvanian Joggins Formation, Nova Scotia: North American Paleontological Conference Programme and Abstracts, Paleobios, v. 25, Supplement to No. 2, p. 100.

Rygel, M.C., and Shipley, B.H., 2005, "The detail will surprise you" – A closer look at Logan, Dawson, and Lyell's measurements of the Joggins section: GAC-MAC-CSPG-CSSS Joint Meeting, Halifax, Nova Scotia, May 16-18, Abstracts, v. 30, p. 169.

Fielding, C.R., Frank, T.D., Birgenheier, L., Thomas, S., Rygel, M.C., and Jones, A. 2005, Revised Permian glacial record of eastern Australia: Geological Society of America Abstracts with Programs, v. 37, no. 7, p. 256.

Gibling, M.R., **Rygel, M.C.**, Davies, S.J., and Calder, J.H., 2005, Sequence stratigraphy of the Pennsylvanian Joggins Formation, Nova Scotia: Architecture of a rapidly subsiding extensional basin: GAC-MAC-CSPG-CSSS Joint Meeting, Halifax, Nova Scotia, May 16-18, Abstracts, v. 30, p. 66.

Waldron, J.W.F., and Rygel, M.C., 2005, Structure of the western Cumberland Basin: implications for coalbed-methane exploration: Mining Matters 2005, Nova Scotia Department of Natural Resources, Report ME 2005-2, p. 24.

Waldron, J.W.F., and **Rygel, M.C.**, 2005, Development and deformation of the Late Paleozoic Cumberland Basin, Nova Scotia, Canada: AAPG Annual Meeting, Calgary, Alberta, June 19-22.

Waldron, J.W.F., and **Rygel, M.C.**, 2005, Role of evaporite withdrawal in the preservation of a unique coal-bearing succession: Pennsylvanian Joggins Formation, Nova Scotia: GAC-MAC-CSPG-CSSS Joint Meeting, Halifax, Nova Scotia, May 16-18, Abstracts, v. 30, p. 203.

2004

Rygel, M.C., and Shipley, B.H., 2004, "Such a section as never was put together before": Logan, Dawson, Lyell, and mid-nineteenth-century measurements of the Joggins section: Geological Society of America Abstracts with Programs, v. 36, p. 244.

Rygel, M.C., Leiggi, P.A., and Bassant, P., 2004, Stratigraphic modeling with DIONISOS: Mesozoic strata of the Peschanomys Uplift, Middle Caspian Basin, Kazakhstan: ChevronTexaco Subsurface Characterization Forum, The Woodlands, Texas, October 24-29.

- Rygel, M.C.**, Davies, S.J., Gibling, M.R., and Calder, J.H., 2004, The Joggins Formation: sedimentological log and stratigraphic framework of the historic fossil cliffs: Abstracts, 30th Annual Atlantic Geoscience Society Meeting, Atlantic Geology, v. 40, p. 155.
- Calder, J.H., **Rygel, M.C.**, Gibling, M.R., and Hebert, B.L., 2004, Sedimentology and stratigraphy of Pennsylvanian red beds near Joggins, Nova Scotia: The proposed Lower Cove Formation with redefinition of the Joggins Formation: Abstracts, 30th Annual Atlantic Geoscience Society Meeting, Atlantic Geology, v. 40, p. 136.
- Waldron, J.W.F, and **Rygel, M.C.**, 2004, Evolution of the Cumberland Basin, Nova Scotia: New insights on deposition and salt tectonics from seismic reflection profiles: Abstracts, 30th Annual Atlantic Geoscience Society Meeting, Atlantic Geology, v. 40, p. 160.
- Waldron, J.W.F, and **Rygel, M.C.**, 2004, Evolution of the Cumberland Basin, Nova Scotia: New insights on deposition and salt tectonics from seismic reflection profiles: presentation to the Geological Survey of Canada's Logan Club, Ottawa, Ontario, February 3.
- Waldron, J.W.F, **Rygel, M.C.**, and Chesterman, J.P., 2004, Salt tectonism and sedimentation patterns in the Cumberland Basin, Nova Scotia: new insights from Devon Canada's seismic reflection profiles: Canadian Society of Petroleum Geologists Conference Abstracts Volume.

2003

- Rygel, M.C.**, and Gibling, M.R., 2003, Centrocinal cross strata - origin, morphology, and implications for understanding ancient terrestrial ecosystems: Geological Society of America Abstracts with Programs, v.35, p. 25.
- Calder, J. H., Davies, S. J., Falcon-Lang, H. J., Gibling, M. R., Hebert, B. L., **Rygel, M. C.**, and Scott, A. C., 2003, Current Research at Joggins: Testimony to a Prospective World Heritage Site: *in* MacDonald, D.R. (ed.), Mining Matters for Nova Scotia 2003 – Opportunities for Economic Development, Nova Scotia Department of Natural Resources Report ME 2003-2, p. 2.
- Gibling, M.R., **Rygel, M.C.**, Falcon-Lang, H.J., and Calder, J.H., 2003, Dryland vegetation in the Paleozoic: the Pennsylvanian Record from Joggins, Nova Scotia: Geological Society of America Abstracts with Programs, v. 35, p. 25.

2002

- Rygel, M.C.**, Falcon-Lang, H.J., Calder, J.H., and Gibling, M.R., 2002, Sedimentology and fossil biota of a Pennsylvanian "waterhole" deposit in a dryland alluvial plain setting, Joggins, Nova Scotia: Geological Society of America Abstracts with Programs, v. 34, no. 6, p. 18.
- Rygel, M.C.**, Falcon-Lang, H.J., Calder, J.H., and Gibling, M.R., 2002, Sedimentology and fossil biota of a Pennsylvanian "waterhole" deposit in a dryland alluvial plain setting, Joggins, Nova Scotia: *in* MacDonald, D.R. (ed.), Mining Matters for Nova Scotia 2002 – Opportunities for Economic Development, Nova Scotia Department of Natural Resources Report ME 2002-2, p. 24.
- Gibling, M.R., **Rygel, M.C.**, Falcon-Lang, H.J., Calder, J.H., and Davies, S.J., 2002, Joggins: Carboniferous river and forest landscapes: *in* MacDonald, D.R. (ed.), Mining Matters for Nova Scotia 2002 – Opportunities for Economic Development, Nova Scotia Department of Natural Resources Report ME 2002-2, p. 9.

2001

- Rygel, M.C.**, and Gibling, M.R., 2001, The interaction of sediment and vegetation – some examples from the Carboniferous of Nova Scotia: Geological Society of America Abstracts with Programs, v. 33, no. 6, p. A-220.

Rygel, M.C., 2001, Fluvial sedimentology of the Joggins Formation (Pennsylvanian), Cumberland Basin, Nova Scotia: American Association of Petroleum Geologists Bulletin, v. 85, no. 11, p. 2058.

Rygel, M.C., Gibling, M.R., and Davies, S.D., 2001, Alluvial architecture of the Joggins Formation, Atlantic Canada – the evolution of fluvial style in a rapidly subsiding Carboniferous floodplain: *in* Mason, J.A., Diffendal, R.F., and Joeckel, R.M. (eds.), Program with Abstracts, 7th International Conference on Fluvial Sedimentology, Open-File Report 60, Conservation and Survey Division, University of Nebraska-Lincoln, p. 238.

2000

Rygel, M.C., and Beuthin, J.D., 2000, Paleoweathering evidence for the Mississippian-Pennsylvanian unconformity near Johnstown, Cambria County, PA: Geological Society of America Abstracts with Programs, v. 32, no. 1, p. A-71.

INVITED SEMINARS

- **University of Pennsylvania**
February 21, 2014: Sticks and Stones – How the Evolution of Land Plants Changed Clastic Depositional Systems
- **Syracuse University**
November 17, 2011: Sticks and Stones – How the Evolution of Land Plants Changed Clastic Depositional Systems
- **Canadian Society of Petroleum Geologists University Outreach Tour**
January 2009: The Magnitude of Late Paleozoic Glacioeustatic Fluctuations: A Synthesis
 - January 12th, 2009: University of Windsor, Windsor, Ontario
 - January 13th, 2009: University of Western Ontario, London, Ontario
 - January 15th, 2009: Laurentian University, Sudbury, Ontario
 - January 16th, 2009: University of Ottawa, Ottawa, Ontario
 - January 16th, 2009: Carleton University, Ottawa, Ontario
- **St. Lawrence University**
March 14, 2008: The Late Paleozoic Ice Age: Dynamic Glaciation in an Icehouse World
- **Canadian Society of Petroleum Geologists University Outreach Tour**
February 2008: The Late Paleozoic Ice Age: Dynamic Glaciation in an Icehouse World
 - February 13th, 2008: Acadia University, Wolfville, Nova Scotia
 - February 14th, 2008: St. Francis Xavier University, Antigonish, Nova Scotia
 - February 18th, 2008: University of New Brunswick, Fredericton, New Brunswick
 - February 19th, 2008: Dalhousie University, Halifax, Nova Scotia
- **Canadian Society of Petroleum Geologists Technical Luncheon Series**
October 9, 2007: Late Paleozoic Sea-level Fluctuations: A Critical Look at Glacioeustasy in an Icehouse World
- **University of Iowa**
April 7, 2006: Changing views of the Late Paleozoic ice age: An eastern Australian perspective
- **University of Nebraska-Lincoln, Stout Lecture Series**
November 11, 2005: The Fossil Record of Plant-Sediment Interaction: Vegetation-Induced Sedimentary Structures from the Pennsylvanian Joggins Formation, Nova Scotia

AWARDS AND HONORS

- **Greek Advisor of the Year**
SUNY Potsdam, Spring 2012
- **Member, Omicron Delta Kappa – National Leadership Honor Society**
April 30, 2011
- **Student’s Choice Award**
Student Support Services, SUNY Potsdam, Spring 2011
- **The Donald L. and Carolyn N. Biggs Earth Science Teaching Award**
Geological Society of America, Geoscience Education Division, Fall 2010
- Award to undergraduate Amanda Werlau: **2nd Place, Ram L. Chugh North Country Research and Public Service Award**
SUNY Potsdam, Center for Undergraduate Research, April 21, 2010
- **Elected Member, Sigma Xi Scientific Research Society**
Fall, 2009
- **Who’s Who In Research**
SUNY Potsdam Research & Sponsored Programs Newsletter, Spring 2009
- **Grant Writing Initiative Award**
SUNY Potsdam Research & Sponsored Programs, 2006 & 2008
- **Best Ph.D. Award**
Canadian Society of Petroleum Geologists, 2007
- **Best Paper Award**
Coal Geology Division, Geological Society of America, for the following presentation at the 2006 annual meeting:
Birgenheier, L.P., Frank, T.D., Fielding, C.R., and Rygel, M.C., 2006, The Permian stable isotope record from ice-proximal localities in eastern Australia: a proxy for Late Paleozoic climate change: Geological Society of America Abstracts with Programs, v. 38, p. 317.
- **Doctoral Thesis Award - Sciences and Engineering**
Dalhousie University, 2006
- **Killam Pre-Doctoral Scholar**
Dalhousie University; 2003-2005
- **History of Geology Division Student Award**
Geological Society of America, 2004
- **President’s Graduate Teaching Assistant Award**
Dalhousie University, 2002-2003
- **A.L. Medlin Award**
Coal Geology Division of the Geological Society of America, 2001
- **Teaching Assistant of the Year**
Dalhousie University Geology Department, 2000-2001
- **Cameron Award**
Canadian Society of Coal Science and Organic Petrology, 2001
- **College Scholar (Geology Department)**
University of Pittsburgh at Johnstown, Geology Department, 2000
- **Jonathan Graft Memorial Scholarship**
UPJ Geology Department, 1999
- **Summer Field Course Scholarship**
National Association of Geoscience Teachers, 1999
- **Indiana University Summer Scholarship**
Indiana University, 1999

GRANTS

- **Faculty Curriculum Development Grant**
Part of the SUNY Potsdam Title III Strengthening Institutions Grant, Spring 2011, \$3,000
Grant to transform my “Geology of Nova Scotia” field trip into a research-intensive course.

- **Professional Development Grants**
NY United University Professors
 - 2010, *Travel to 2010 GSA meeting in Denver, CO*, \$892
 - 2009, *Travel to 2009 GSA meeting in Portland, OR*, \$875
 - 2008, *Early Paleozoic fluvial systems in the Appalachian Basin*, \$975
 - 2007, *Travel to 2007 GSA meeting in Denver, CO*, \$825
 - 2006, *Travel to 2006 GSA meeting in Philadelphia, PA*, \$850
- **Kilmer Undergraduate Research Apprenticeships**
SUNY Potsdam Center for Undergraduate Research
 - Spring 2010, \$200 award to Dan Rockefeller and \$250 award to Amanda Werlau with matching professional development funds.
 - Fall 2009, \$100 awards to Amanda Brewer, Ryan Brink, Erin Sheldon, Dan Slane, and Emily Stephan with matching professional development funds
 - Spring 2009, \$100 awards to Kyle Ashley, Dan Slane, Emily Stephan, and Erin Sheldon with matching professional development funds.
- **Undergraduate Research Grant to Dan Slane**
Northeastern Section of the Geological Society of America, Spring 2009, \$450
- **Faculty-Undergraduate Summer Research Grant**
SUNY Potsdam RSPO Office, Summer 2009, \$4,200 stipend for undergraduate Daniel Slane to work on the project: *Sedimentology of the Devonian Catskill Formation: Were the Earliest Terrestrial Ecosystems Terrestrial or Tidal?*
- **Faculty/Student Conference Travel Application (for undergraduate Dan Slane)**
Funds from Title III Strengthening Institutions Grant at SUNY Potsdam, October 2009, \$1,000
Travel to 2009 Geological Society of America Annual Meeting in Portland, Oregon
- **Petroleum Research Foundation Grant #47967-GB8**
American Chemical Society, 2008 through 2010, \$50,000
Alluvial Architecture of the Springhill Mines and Ragged Reef Formations: Fluvial Reservoir Characteristics Linked to Paleogeomorphology
- **Research and Creative Endeavors Grant**
SUNY Potsdam RSPO Office, 2007, \$725
Understanding Early Terrestrial Ecosystems: The Upper Devonian Catskill Formation of Northcentral Pennsylvania
- **Pennsylvania Department of Conservation and Natural Resources Grant**
2007; \$1,219
Understanding Early Terrestrial Ecosystems: The Upper Devonian Catskill Formation of Northcentral Pennsylvania
- **Curriculum Development Grant**
SUNY Potsdam RSPO Office, 2006; **\$1,000**
Sedimentary Geology: A hands-on approach to understanding Earth surface processes and materials
- **Conference Travel Grant**
SUNY Potsdam RSPO, 2006, \$200

- **Nova Scotia Museum Grant**
2003, \$3,200
Vegetation-induced sedimentary structures from the fossil forests of Nova Scotia: insight into the dynamics of early terrestrial ecosystems
- **Graduate Research Grant**
Geological Society of America, 2001, \$2,600
Fluvial sedimentology of the Joggins Formation, Cumberland County, Nova Scotia
- **Graduate Research Grant**
American Association of Petroleum Geologists, 2001, **\$1,911**
Fluvial sedimentology of the Joggins Formation, Cumberland County, Nova Scotia
- **Medlin Award**
Coal Geology Division of the Geological Society of America, 2001, **\$1,500**
Channels and Coal – floodplain dynamics of the Pennsylvanian Joggins Formation
- **Undergraduate Research Grant**
Northeastern Section of the Geological Society of America, 1999, \$600
Paleopedogenic analysis of a possible silica-cemented paleosol (ganister) at the Mississippian-Pennsylvanian unconformity near Johnstown, PA

TEACHING DEVELOPMENT & CONTINUING EDUCATION

- **Ground Based Lidar Methods and Applications**
Geological Society of America Annual Meeting, 29 October, 2010
- **Research Proposal Workshop**
The Grantsmanship Center, Sept. 17th-19th, 2009
- **Earth Science Literacy Initiative**
Online Workshop, May 12th-23rd, 2008
- **Designing Effective and Innovative Courses in the Geosciences**
On the Cutting Edge Workshop Series, Clinton, NY, July 8th-12th, 2007
- **Invited Panelist, Perspectives on Education**
February 2004, Dalhousie University, Center for Learning & Teaching
- **Teaching Methods, How to Speak, Managing Conflict, and Student Assessment Methods Workshops**
Dalhousie University, Office of Instructional Development and Technology (OIDT), March 2003
- **Surviving Academia**
Geological Society of America Annual Meeting, October 2001

SERVICE

- **Board of Directors, New York State Council of Professional Geologists**
 - February 2010 to present
- **Associate Editor, Canadian Journal of Earth Sciences**
 - September 2012 to present

- **Associate Editor, Journal of Sedimentary Research**
 - May 2009 to present
- **External Reviewer**
 - American Chemical Society, Petroleum Research Fund
 - Atlantic Geology
 - Basin Research
 - Canadian Journal of Earth Sciences
 - Geological Society of America Bulletin
 - Geology
 - Gondwanan Geology
 - Journal of the Geological Society, London
 - Journal of Sedimentary Research
 - Norton Publishing (several book chapters and online products)
 - Sedimentary Geology
 - National Science Foundation
 - Natural Sciences and Engineering Research Council of Canada
- **Administrative/Committee Assignments**
 - Teaching and Learning Technology Roundtable, SUNY Potsdam, Member, Fall 2007-present
 - Communication Subcommittee Chair, 2008-2010
 - Arts and Sciences Curriculum Committee, SUNY Potsdam, Spring 2011-present
 - Hill Endowment Administrative Committee, SUNY Potsdam, Member, Fall 2006-present
 - SUNY Potsdam Collegiate Science and Technology Entry Program, Advisory Board, SUNY Potsdam, Spring 2009-present
 - Mt. Emmons Scholarship Selection Committee, SUNY Potsdam, Spring 2012 and Spring 2014
 - User Services Librarian Search Committee, SUNY Potsdam, Spring 2009
 - SUNY Potsdam Faculty Senate, Member-at-Large, 2008-2010
Department Representative, Fall 2011
 - Research and Creative Endeavors Committee, SUNY Potsdam, Member, Fall 2007-Spring 2010
 - Geology Department Review Report, SUNY Potsdam, Editor, Fall 2007
- **College-related public service**
 - SOAR Program, SUNY Potsdam
Spring 2011 – Life through Time
Fall 2012 – Earth's Climate History
 - Sigma Gamma Epsilon (student Honor Society), Advisor, Fall 2007-present
 - Advisor, Zeta Gamma Sigma Sorority, 2008-present
 - Participant, SUNY Potsdam Open House Programs, 2006-present
 - Participant, Geology Department Open House, 2006-present
 - Panelist, Bregman Book Discussion Series, A Passion for Mars, March 2nd, 2010
 - Speaker, President's Emeriti Breakfast, SUNY Potsdam, Feb. 12th, 2009
 - Panelist, Bregman Book Discussion Series, Children of the Sun by Alfred Crosby, January 20th, 2007
- **Community Service**
 - Geology hike for Potsdam High School, June 3rd, 2010
 - Participant, High School Science Lab Day, 2007-present
 - Participant, Middle School Science Olympiad, 2007-present

- Participant, Geology Department Rock and Fossil Show, 2007 and 2008
- Co-Organizer, Geology Workshop for Norwood-Norfolk Middle School, March 23rd, 2007
- Co-Organizer, Geology Workshop for St. Lawrence Middle School, March 29th, 2007

MEDIA COVERAGE

- **SUNY Potsdam YouTube Video, March 12, 2012**
Geology Professor – Dr. Mike Rygel, available at <http://youtu.be/eXHL9GFXBNU>
- **Watertown Times, August 24, 2011**
Virginia earthquake felt in the north country
- **Advance News, December 26, 2010, p. 7A**
SUNY Potsdam's Michael Rygel honored for teaching
- **Daily Courier Observer, December 18, 2010, p. 9**
Geology professor Rygel receives Biggs Award
- **Watertown Times, June 23, 2010**
Canadian quake shakes buildings, people throughout North Country
- **North Country Public Radio, June 23, 2010**
Interview about Canadian earthquake - <http://www.northcountrypublicradio.org/news/story/15861/breaking-earthquake-shakes-northern-new-york-ontario-and-quebec>
- **Potsdam People, Spring 2009, p. 3**
CBC Documents Research by Potsdam Prof. and Students
- **Land and Sea (CBC Television Series), October 26, 2008**
Joggins, webcast available at: <http://www.cbc.ca/landandsea/2009/05/joggins.html>
- **Daily Courier & Observer, October 24, 2008, p. 7**
CBC Series Features SUNY Potsdam Crew
- **Halifax Chronicle Herald, July 3, 2008, p. B4**
New York Science, N.S. Rocks
- **Daily Courier-Observer, April 26, 2008, p. 10**
Dr. Rygel Awarded \$50,000 for Geology field work
- **Daily Courier-Observer, September 26, 2007**
Dr. Rygel to Present Work at Geological Society Meet
- **Daily Courier & Observer, May 18, 2007, p. 14**
Rygel Dissertation Lauded
- **North Country This Week, May 16-18, 2007, p. 5**
Rygel's Best Dissertation
- **Ogdensburg Advance News, March 18, 2007**
SUNY Potsdam Presenting Research
- **Houston Chronicle, January 9, 2007, p. 2**
Climate changes of past yielding clues to present / Research team suggests global warming, cooling have run in cycles
- **Los Angeles Times, January 5, 2007, p. A8**
Ancient global warming was jarring, not subtle, study finds
- **San Francisco Chronicle, January 5, 2007, p. B1**
Scientists research stretches of global warming, cooling/Fossil studies helped determine sea levels at various times
- **Potsdam Daily Courier-Observer, September 30, 2006**
Geology Faculty Present Research at Meeting.
- **Fielding, C.R., Frank, T.D., and Isbell, J. (2006), Eos Transactions, v. 87 (21), p. 87, 91**
The Late Paleozoic ice age revisited
- **Geotimes, July 2005, Sedimentology News**
Notes, p. 10-11
Fossil forests sunk by salt