

CURRICULUM VITAE

RUDY LYNN SLINGERLAND

Professor Emeritus of Geology
The Pennsylvania State University
Department of Geosciences
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University Park, PA 16802

BORN

4/7/47- Troy, PA

EDUCATION

1969 B.S. in Geology with Honors, Dickinson College, Carlisle, PA
1974 M.S. in Geology, The Pennsylvania State University, University Park, PA
1977 Ph.D. in Geology, The Pennsylvania State University, University Park, PA, Advisor:
Eugene G. Williams

PROFESSIONAL EXPERIENCE

1968-1969 Geological Field Assistant, U.S. Geological Survey, Boston, MA
1969-1971 Third Class Petty Officer, U.S. Navy, Mobile Construction Battalion-3
1972-1976 Graduate Teaching and Research Assistant, Geology Program, Penn State
University
1977-1983 Assistant Professor of Geology, The Pennsylvania State University, University
Park, PA
1983-1989 Associate Professor of Geology, The Pennsylvania State University, University
Park, PA
1984-2006 Officer and Board Member, Applied Research and Exploration, Inc.
1989-2015 Professor of Geology, The Pennsylvania State University, University Park, PA
1997-2002 Head, Department of Geosciences, The Pennsylvania State University, University
Park, PA
2003 Interim Associate Dean for Research and Graduate Education, College of Earth and
Mineral Sciences, The Pennsylvania State University, University Park, PA
2015-present Professor Emeritus of Geology, The Pennsylvania State University, University
Park, PA

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Geophysical Union
Geological Society of America
International Assn. of Sedimentologists
Sigma Xi
Society of Sedimentary Geology (SEPM)

EDITORSHIPS

Editorial Board of Basin Research
Editorial Board of Journal of Geology
Editorial Board of Geology
Associate Editor, Journal of Sedimentary Research (SEPM)
Earth & Sky Radio Series--Science Advisor

HONORS AND AWARDS

Fellow, American Geophysical Union
Fellow, Geological Society of America
G. K. Gilbert Award, American Geophysical Union EPSP
MARGINS Distinguished Lecturer
Earth and Mineral Sciences Wilson Research Award
Earth and Mineral Sciences Wilson Service Award
Earth and Mineral Sciences Wilson Teaching Award

GRADUATE THESES SUPERVISED

13 Ph. D.
22 M. Sc.

FUNDED RESEARCH

37 External Funded Research Projects

OTHER PROFESSIONAL ACTIVITIES

Steering Committees

1. National Science Foundation
 - a. Workshop on Quantitative Dynamic Stratigraphy
 - b. Geology and Paleontology Program
 - c. MARGINS Steering Committee
 - d. Center for Airborne Laser Mapping
 - e. Community Surface Dynamics Modeling System (CSDMS)
 - f. National Center for Earth Surface Dynamics (Science and Technology Center)

2. U. S. Army Office of Research
3. AGU Chapman Conference on Source to Sink Systems

Invited Lecturer

103 colleges, universities, energy companies, government agencies

Consultancy and External Reviews

1. Consultant to QEA, LLC
2. Consultant to Chamber of Mines of South Africa
3. Consultant to Elf-Aquitaine, SA
4. External Reviewer, Franklin & Marshall College, Department of Geosciences
5. External Reviewer: Lehigh University, Department of Earth and Env'tl. Sciences
6. External Reviewer, Binghamton University, Department of Geological Sciences
7. External Reviewer, Indiana University, Department of Geological Sciences
8. External Reviewer, Ohio University, Department of Geological Sciences
9. Member, Science Task Force, Dickinson College
10. Member Advisory Board, University of Minnesota, Geosciences Dept.

Chairman of numerous technical sessions at Geol. Soc. Am. Annual and Regional Meetings

Referee for scientific journals

Approximately 10-15 papers a year

Referee for proposals

Approximately 10 per year from National Science Foundation, Petroleum Research Fund, U.S. Geological Survey, Dutch, British, and German Science Foundations; participate in various NSF advisory panels on proposal funding such as (recently) Marine Geology and Geophysics and Software Infrastructure for Sustained Innovation (SI²)

Convener of numerous symposia and workshops

PUBLICATIONS IN REFEREED JOURNALS

1. Slingerland, R.L., 1977. [The Effects of Entrainment on the Hydraulic Equivalence Relationships of Light and Heavy Minerals in Sands](#), *J. Sed. Pet.*, 47(2):753-770.
2. Slingerland, R.L. and E.G. Williams, 1979. [Paleocurrent Analysis in Light of Trough Cross-Stratification Geometry](#), *Geology*, 87:724-732.
3. Slingerland, R.L., 1981. [Qualitative Stability Analysis of Geologic Systems, with an Example from River Hydraulic Geometry](#), *Geology*, 9:491-493.
4. Slingerland, R.L., 1982a. [Applicability of the Gibbs Equation - Discussion](#), *J. Sed. Pet.*, 52(3):1025.
5. Slingerland, R.L., 1982b. Reply in Support of the Gibbs Formulae, *J. Sed. Pet.*, 52:1026.
6. Slingerland, R.L. and B. Voight, 1982. [Evaluating Hazard of Landslide-induced Water Waves](#), *J. of the Waterway, Port, Coastal and Ocean Div.* (Am. Soc. of Civil Engineers), 108(WW4):504-512.

7. **Slingerland**, R.L., 1983. [Systematic Monthly Morphologic Variation of Assawoman Inlet: Nature and Causes](#), *Earth Surface Processes and Landforms*, 8:161-169.
8. Huber, A., R.L. **Slingerland** and B. Voight, 1984. [Evaluating Hazard of Landslide-induced Water Waves Discussion and Closure](#), *J. Waterway Port, Coastal and Ocean Div.*, 110:111-113.
9. **Slingerland**, R.L., 1984. [Role of Hydraulic Sorting in the Origin of Fluvial Placers](#), *J. Sed. Pet.*, 54:137-150.
10. Weedman, S.D. and R.L. **Slingerland**, 1985. [Experimental Study of Sand Streaks Formed in Turbulent Boundary Layers](#), *Sedimentology*, 32:133-145.
11. **Slingerland**, R.L., 1986. [Numerical Computation of Co-oscillating Palaeotides in the Catskill Eperic Sea of Eastern North America](#), *Sedimentology*, 33:487-497.
12. Snow, R.S. and R.L. **Slingerland**, 1987. [Mathematical Modelling of Graded River Profiles](#), *Journal of Geology*, 95:15-33.
13. **Slingerland**, R. and R.S. Snow, 1988. [Stability Analysis of a Rejuvenated Fluvial System](#), *Zeitschrift fur Geomorph*, Suppl.-Bd 67:93-102.
14. **Slingerland**, R. and K. Furlong, 1989. [Geodynamic and Geomorphic Evolution of the Permo-triassic Appalachian Mountains](#), *Geomorphology*, 2:23-37.
15. Ericksen, M. and R.L. **Slingerland**, 1990. [Numerical Simulations of Tidal and Wind-driven Circulation in the Cretaceous Interior Seaway of North America](#), *Geol. Soc. Amer. Bull.*, 102:1499-1516.
16. Snow, R.S. and R.L. **Slingerland**, 1990. [Stream Profile Adjustment to Crustal Warping: Nonlinear Results from a Simple Model](#), *Journal of Geology*, 98:699-708.
17. Gardner, T., D. Verdonk, N.M. Pinter, R.L. **Slingerland**, K.P. Furlong, T.F. Bullord and S.G. Wells, 1992. [Quaternary Uplift Astride the Aseismic Cocos Ridge, Pacific Coast, Costa Rica](#), *Geol. Soc. Amer. Bull.*, 104:219-232.
18. van Niekerk, A., K.R. Vogel, R.L. **Slingerland** and J.S. Bridge, 1992. Routing of Heterogeneous Size-Density Sediments Over a Movable Stream Bed: Model Development. *ASCE J. of Hydraulic Eng.*, 118(2):246-262.
19. Vogel, K.R., A. van Niekerk, R.L. **Slingerland** and J.S. Bridge, 1992. Routing of Heterogeneous Size-Density Sediments Over a Movable Stream Bed: Model Verification and Testing. *ASCE J. of Hydraulic Eng.*, 118(2):263-279.
20. Rahuel, J. L., **Slingerland**, R., Vogel, K. R., van Niekerk, A., Bridge, J. S., Routing of heterogeneous sediments over movable bed; model development; discussion and closure, *Journal of Hydraulic Engineering*, 119 (4), p. 540-540, 1 refs, 1993.
21. Keen, T.R. and R.L. **Slingerland**, 1993. Four Storm-Event Beds and the Tropical Cyclones that Produced Them: A Numerical Hindcast, *J. Sed. Pet.*, 63(2):218-232.
22. Keen, T.R. and R.L. **Slingerland**, 1993. A Numerical Study of Sediment Transport and Event Bed Genesis During Tropical Storm Delia, *J. Geophys. Res.*, 98:4775-4791.

23. Keen, T.R., S.M. Glenn and R.L. **Slingerland**, 1994. Coastal Circulation and Sedimentation During Severe Storms, in Proceedings of the Third International Conference on Estuarine and Coastal Modeling, Chicago, IL, edited by M. Spaulding, *Am. Soc. Civil Eng.*, p. 279-293.
24. Tucker, G. and R.L. **Slingerland**, 1994. Erosional Dynamics, Flexural Isostasy, and Long-Lived Escarpments: A Numerical Modelling Study. *J. Geophys. Res.*, 99, No. B6, pp. 12229-12243.
25. Martel, A. Thomas, P.A. Allen and R.L. **Slingerland**, 1994. Use of Tidal-circulation Modeling in Paleogeographical Studies: an Example from the Tertiary of the Alpine Perimeter. *Geology*, 22:925-928.
26. **Slingerland**, R.L., Kump, L.R., Arthur, M.A., Fawcett, P. J., Sageman, B.B., and Barron, E.J., 1996, Estuarine Circulation in the Turonian Western Interior Seaway of North America. *Geol. Soc. Am. Bull.*, v. 108, p. 941-952.
27. Tucker, G. E., and R. **Slingerland**, 1996, Predicting sediment flux from fold and thrust belts. *Basin Research*, v. 8, p. 329-349.
28. Tucker, Gregory E., and **Slingerland**, Rudy, 1997, Drainage basin responses to climate change, *Water Resources Research*, 33 (8), p. 2031-2047.
29. Jewell, Paul W., **Slingerland**, Rudy, Kump, Lee R., Arthur, Mike A., Fawcett, Peter J., Sageman, Bradley B., Barron, Eric J., 1998, Estuarine circulation in the Turonian Western Interior Seaway of North America; discussion and reply, *Geological Society of America Bulletin*, 110 (5), p. 691-694, 39 refs. For reference to original see Slingerland, R. L., et al., *Geol. Soc. Am. Bull.*, Vol. 108, p. 941, 1998.
30. Smith, N. D., R. **Slingerland**, M. Perez-Arlucea, and G. S. Morozova, 1998, The 1870s avulsion of the Saskatchewan River: *Canadian Journal of Earth Sciences*, v. 35, p. 453-466.
31. **Slingerland**, R., and Smith, N. D., 1998, [Necessary conditions for a meandering-river avulsion](#): *Geology*, v. 26, p. 435-438.
32. Robinson, R.A.J., and **Slingerland**, R.L. 1998, Origin of fluvial grain-size trends in a foreland basin: the Pocono Formation of the Central Appalachian Basin: *Journal of Sedimentary Research*, v. A68, p. 473-486.
33. Robinson, R.A.J., and **Slingerland**, R.L., 1998, Grain-size trends and basin subsidence in the Campanian Castlegate Sandstone and equivalent conglomerates of central Utah: *Basin Research*, v. 10, p. 109-127.
34. Schlunegger, Fritz, R. L. **Slingerland**, and Albert Matter, 1998, Crustal thickening and crustal extension as controls on the evolution of the drainage network of the central Swiss Alps between 30 Ma and the present: constraints from the stratigraphy of the North Alpine Foreland Basin and the structural evolution of the Alps: *Basin Research*, v. 10, p. 197-212.
35. Willett, S. D., **Slingerland**, Rudy, and Hovius, Niels, 2001, Uplift, Shortening and Steady State Topography in Active Mountain Belts. *American Journal of Science*, v. 301, p. 455-485.
36. Bjerrum, C. J., Surlyk, Finn, Callomon, J. H., and **Slingerland**, Rudy, 2001, Numerical paleoceanographic study of the early Jurassic transcontinental Laurasian Seaway. *Paleoceanography*, 16 (4): 390-404.
37. **Slingerland**, Rudy, Syvitski, J. P., and Paola, C., 2002, Sediment Modeling System Enhances Education and Research. *EOS*, v., p. 578-579.
38. Hartshorn, K., Hovius, N., Dade, W. B., and **Slingerland**, R. L., 2002, Climate-driven bedrock incision in

an active mountain belt. *Science*, vol. 297, p. 2036-2038.

39. Fuller, C. W., Willett, S.D., Hovius, Niels, **Slingerland**, Rudy, 2003, Erosion rates for Taiwan mountain basins: New determinations from suspended sediment records and a stochastic model of their temporal variation. *Journal of Geology*, 111 (1): 71-87.
40. Meijer, P. Th.; **Slingerland**, R.; Wortel, M. J. R., 2004, Tectonic control on past circulation of the Mediterranean Sea: A model study of the Late Miocene. *Paleoceanography*, Vol. 19, No. 1, PA1026 10.1029/2003PA000956.
41. Adams, P. N., **Slingerland**, R. L., and Smith, N. D., 2004, Variations in natural levee morphology in anastomosed channel floodplain complexes. *Geomorphology*, 61:127-142.
42. Keen, T. R., D. S. Ko, R. L. **Slingerland**, S. Riedlinger, and P. Flynn (2006), Potential transport pathways of terrigenous material in the Gulf of Papua, *Geophys. Res. Lett.*, 33, L04608, doi:10.1029/2005GL025416.
43. Miller, S. R., and R. **Slingerland**, 2006, Valley advection on fault-bend folds: Topographic inheritance, valley spacing, and the formation of wind gaps, *Geology*, v. 34; no. 9; p. 769–772.
44. Keen, T. R., Y. Furukawa, S. J. Bentley, R. L. Slingerland, W. J. Teague, J. D. Dykes, and C. D. Rowley (2006), Geological and oceanographic perspectives on event bed formation during Hurricane Katrina, *Geophys. Res. Lett.*, 33, L23614, doi:10.1029/2006GL027981.
45. Edmonds, D. and R. L. **Slingerland**, 2007, Mechanics of middle ground bar formation: Implications for the formation of delta distributary channel networks. *Journal of Geophysical Research: Journal of Geophysical Research*, VOL. 112, F02034, doi:10.1029/2006JF000574.
46. Miller, S. R., R. L. **Slingerland**, and E. Kirby (2007), Characteristics of steady state fluvial topography above fault-bend folds, *J. Geophys. Res.*, 112, F04004, doi:10.1029/2007JF000772.
47. Filgueira-Rivera, M., N. D. Smith, and R. L. **Slingerland** (2007), Controls on natural levee development in the Columbia River, British Columbia, Canada, *Sedimentology*, 54, 905–919.
48. **Slingerland**, R., N. W. Driscoll, J. D. Milliman, S. R. Miller, and E. A. Johnstone (2008), Anatomy and growth of a Holocene clinothem in the Gulf of Papua, *J. Geophys. Res.*, 113, F01S13, doi:101029/2006JF000628.
49. **Slingerland**, R., R. W. Selover, A. S. Ogston, T. R. Keen, N. W. Driscoll, and J. D. Milliman (2008), Building the Holocene clinothem in the Gulf of Papua: An ocean circulation study, *J. Geophys. Res.*, 113, F01S14, doi:10.1029/2006JF000680.
50. Edmonds, D. A., and R. L. **Slingerland** (2008), Stability of delta distributary networks and their bifurcations, *Water Resour. Res.*, 44, W09426, doi:10.1029/2008WR006992.
51. D.A. Edmonds, D.C.J.D. Hoyal, B.A. Sheets, and R.L. **Slingerland**, 2009, Predicting delta avulsions: Implications for coastal wetland restoration. *Geology*, 37; no. 8; p. 759–762; doi: 10.1130/G25743A.
52. Smith, N., Perez-Arlucea, M., Edmonds, D., **Slingerland**, Rudy (2009), Elevation adjustments of paired natural levees during flooding of the Saskatchewan River, *Earth Surface Processes and Landforms*, 34(8), 1060-1068.

53. Walter L. Cressler III, Edward B. Daeschler, Rudy **Slingerland** and Daniel A. Peterson, in press, Terrestrialization in the Late Devonian: A palaeoecological overview of the Red Hill site, Pennsylvania, USA. Geological Society, London, Special Publications 2010; v. 339; p. 111-128 doi:10.1144/SP339.10
54. Edmonds, D. A., Rudy **Slingerland**, Published online: 20 December 2009 | Corrected online: 20 January 2010, Significant effect of sediment cohesion on delta morphology, *Nature Geoscience* 3, 105 - 109 | doi:10.1038/ngeo730
55. Edmonds, D. A., Rudy **Slingerland**, Jim Best, Dan Parsons, and Norm Smith, Response of river-dominated delta channel networks to permanent changes in river discharge. *GEOPHYSICAL RESEARCH LETTERS*, VOL. 37, L12404, doi:10.1029/2010GL043269, 2010
56. Barton, J. S., R. L. **Slingerland**, S. Pittman, and T. B. Gabrielson (2010), Monitoring coarse bedload transport with passive acoustic instrumentation: A field study, in *Bedload-surrogate monitoring technologies: U.S. Geological Survey Scientific Investigations Report 2010-5091*, edited by J. R. Gray, et al., pp. 38-51, U.S. Geological Survey. Available online at: <http://pubs.usgs.gov/sir/2010/5091/papers/Barton.pdf>; Accessed 02 September 2010.
57. Syvitski, J., E. W. Hutton, S. Peckham, and Rudy **Slingerland**. (2011). "CSDMS — A Modeling System to Aid Sedimentary Research." *The Sedimentary Record* 9(1): 4-9.
58. Smith, Norman D., Marta Pérez-Arlucea, Douglas A. Edmonds, and Rudy L. **Slingerland**. "Elevation adjustments of paired natural levees during flooding of the Saskatchewan River." *Earth Surface Processes and Landforms* 34, no. 8 (2009): 1060-1068.
59. **Slingerland**, R., 2012, "[Understanding cause and effect in geosciences through systems modeling.](#)" *Geological Society of America Special Papers* 486 (2012): 115-116 doi:10.1130/2012.2486(19).
60. Bohn, Charles W. IV, Peter. B. Flemings, and R. L. Slingerland, 2012, [Accommodation change during bypass across a late-stage fan in the shallow Auger Basin.](#) In: "Application of the Principles of Seismic Geomorphology to Continental-Slope and Base-of-Slope Systems: Case Studies from Seafloor and Near-Seafloor Analogues", *SEPM Special Publication No. 99*, SEPM (Society for Sedimentary Geology), ISBN 978-1-56576-304-3, p. 219–236.
61. T. R. Keen, R. L. **Slingerland**, S. J. Bentley, Y. Furukawa, W. J. Teague, Dykes, 2012, [Sediment Transport on Continental Shelves: Storm Bed Formation and Preservation in Heterogeneous Sediments.](#) *Int. Assoc. Sedimentol. Spec. Publ.* (2012) 44, 295–310.
62. West, Nicole, Eric Kirby, Paul Bierman, Rudy **Slingerland**, Lin Ma, Dylan Rood, and Susan Brantley. "[Regolith production and transport at the Susquehanna Shale Hills Critical Zone Observatory, Part 2: Insights from meteoric 10Be.](#)" *Journal of Geophysical Research: Earth Surface* 118, no. 3 (2013): 1877-1896.
63. Kohl, Daniel, **Rudy Slingerland**, Mike Arthur, Reed Bracht, and Terry Engelder, 2014, [Sequence](#)

[stratigraphy and depositional environments of the Shamokin \(Union Springs\) Member, Marcellus Formation, and associated strata in the middle Appalachian Basin](#). American Association of Petroleum Geologists Bulletin, v. 98, no. 3 (March 2014), pp. 483–513.

64. Clyde, William C., Peter Wilf, Ari Iglesias, Rudy L. **Slingerland**, Timothy Barnum, Peter K. Bijl, Timothy J. Bralower et al. "[New age constraints for the Salamanca Formation and lower Río Chico Group in the western San Jorge Basin, Patagonia, Argentina: Implications for Cretaceous-Paleogene extinction recovery and land mammal age correlations](#)." Geological Society of America Bulletin 126, no. 3-4 (2014): 289-306.
65. Canestrelli, Alberto, William Nardin, Douglas Edmonds, Sergio Fagherazzi, and **Rudy Slingerland**. "[Importance of frictional effects and jet instability on the morphodynamics of river mouth bars and levees](#)." Journal of Geophysical Research: Oceans 119, no. 1 (2014): 509-522.
66. Comer, Emily E., **Rudy L. Slingerland**, J. Marcelo Krause, Ari Iglesias, William C. Clyde, María Sol Raigemborn, and Peter Wilf. "Sedimentary facies and depositional environments of diverse early Paleocene floras, north-central San Jorge Basin, Patagonia, Argentina." Palaios 30, no. 7 (2015): 553-573.
67. Wendt, Anna K., Mike A. Arthur, **Rudy Slingerland**, Daniel Kohl, Reed Bracht, and Terry Engelder. "Geochemistry and depositional history of the Union Springs Member, Marcellus Formation in central Pennsylvania." Interpretation 3, no. 3 (2015): SV17-SV33.
68. Bolla Pittaluga, M., Tambroni, N., Canestrelli, A., **Slingerland, R.**, Lanzoni, S., and Seminara, G., 2015, Where river and tide meet: The morphodynamic equilibrium of alluvial estuaries: Journal of Geophysical Research: Earth Surface, v. 120, no. 1, p. 75-94.
69. Nijhuis, A.J., Edmonds, D.A., Caldwell, R.L., Cederberg, J.A., **Slingerland, R.L.**, Best, J.L., Parsons, D.R., and Robinson, R.A.J., in review, Fluvio-deltaic avulsions during relative sea-level fall: The case of the Goose River, Newfoundland-Labrador, Canada. Geology.
70. Burpee, A., **Slingerland, R. L.**, Edmonds, Douglas A., Parsons, D., Best, J., Cederberg, J., McGuffin, A., Caldwell, R., Nijhuis, A., and Royce, J., accepted, Grain size controls on the morphology and internal geometry of river-dominated deltas. Journal of Sedimentary Research.
71. Canestrelli, Alberto, Aukje Spruyt, Bert Jagers, **Rudy Slingerland**, and Mart Borsboom. "A mass-conservative staggered immersed boundary model for solving the shallow water equations on complex geometries." International Journal for Numerical Methods in Fluids 81, no. 3 (2016): 151-177.
72. Fagherazzi, Sergio, Douglas A. Edmonds, William Nardin, Nicoletta Leonardi, Alberto Canestrelli, Federico Falcini, Douglas J. Jerolmack, Giulio Mariotti, Joel C. Rowland, and **Rudy L. Slingerland**. "Dynamics of river mouth deposits." Reviews of Geophysics 53, no. 3 (2015): 642-672.
73. Duffy, Christopher, Yuning Shi, Ken Davis, **Rudy Slingerland**, Li Li, Pamela L. Sullivan, Yves Goddérís, and Susan L. Brantley. "Designing a Suite of Models to Explore Critical Zone

Function." *Procedia Earth and Planetary Science* 10 (2014): 7-15.

74. Zhang, Yu, **Rudy Slingerland**, and Christopher Duffy. "Fully-coupled hydrologic processes for modeling landscape evolution." *Environmental Modelling & Software* 82 (2016): 89-107.
75. Gu, Xin, David FR Mildner, David R. Cole, Gernot Rother, Rudy Slingerland, and Susan L. Brantley. "Quantification of organic porosity and water accessibility in Marcellus shale using neutron scattering." *Energy & Fuels* 30, no. 6 (2016): 4438-4449.
76. Wei, Emily A., Neal W. Driscoll, and **Rudy L. Slingerland**. "Oceanographic currents, differential subsidence, and physiography control three-dimensional clinothem growth in the Gulf of Papua, Papua New Guinea." *Marine Geology* 407 (2019): 164-180.
77. Edmonds, Douglas A., Harrison K. Martin, Jeffery M. Valenza, Riley Henson, Gary S. Weissmann, Keely Miltenberger, Wade Mans et al. "Rivers in reverse: Upstream-migrating dechannelization and flooding cause avulsions on fluvial fans." *Geology* 50, no. 1 (2022): 37-41.

BOOKS OR PARTS OF BOOKS

1. **Slingerland**, R.L. and B. Voight, 1979. [Occurrences, Properties and Predictive Models of Landslide-generated Water Waves](#), Chap. 9, *In: Voight, B. (ed.), Rockslides and Avalanches, 2*, p. 317-397.
2. Gerety, K.M. and R.L. **Slingerland**, 1983. Nature of the Saltating Population in Wind Tunnel Experiments with Heterogenous Size-density Sands, *In: Brookfield, M.E. and T.S. Ahlbrandt (eds.), Eolian Sediments and Processes*, Elsevier, p. 115-131.
3. **Slingerland**, R.L., 1984. The Effects of Entrainment on the Hydraulic Equivalence Relationships of Light and Heavy Minerals in Sands, *In: Luepke, G. (ed.), Stability of Heavy Minerals in Sediments, Benchmark Papers in Geology*, Hutchinson Ross Pub. Co.
4. **Slingerland**, R. and N.D. Smith, 1986. Occurrence and Formation of Waterlaid Placers, *Ann. Rev. of Earth and Planetary Sci.*, 14:113-147.
5. Levine, J.R. and R.L. **Slingerland**, 1987. Upper Mississippian to Middle Pennsylvanian Stratigraphic Section, Pottsville, Pennsylvania, *In: Roy, D.C. (ed.), Geol. Soc. Am. Centennial Field Guide-Northeastern Section*, 5:59-64.
6. **Slingerland**, R. and J-P Loule, 1988. [Wind/wave and Tidal Processes along the Upper Devonian Catskill Shoreline in Pennsylvania](#), USA, 2nd International Symposium on the Devonian System, *Can. Soc. Pet. Geol. Memoir*, 13:125-138.
7. Alexander, S.S., D.P. Gold, T.W. Gardner, R.L. **Slingerland** and C.P. Thornton, 1989. Near-surface Neotectonic Deformation Associated with Seismicity in the Northeastern United States, NUREG/CR report, U.S. Nuclear Regulatory Commission.

8. Levine, J.R. and R.L. **Slingerland**, 1989. Alleghanian Foreland Basin Deposits at Pottsville, PA, *In: Slingerland R. and K.P. Furlong (eds.), Sedimentation and Basin Analysis in Siliciclastic Rock Sequences, v. 2, Sedimentology and Thermal-Mechanical History of Basins in the Central Appalachian Orogen, Pennsylvania State University, University, Park, PA.*
9. **Slingerland**, R.L., 1989. Acadian Foreland Basin Deposits at Port Matilda, PA, *In: Slingerland, R. and K.P. Furlong (eds.), Sedimentation and Basin Analysis in Siliciclastic Rock Sequences, v. 2, Sedimentology and Thermal-Mechanical History of Basins in the Central Appalachian Orogen, Pennsylvania State University, University, Park, PA.*
10. **Slingerland**, R.L., 1989. Alleghanian Foreland Basin Deposits at Curwensville, PA, *In: Slingerland R. and K.P. Furlong (eds.), Sedimentation and Basin Analysis in Siliciclastic Rock Sequences, v. 2, Sedimentology and Thermal-Mechanical History of Basins in the Central Appalachian Orogen, Pennsylvania State University, University, Park, PA.*
11. **Slingerland**, R.L., 1989. Passive Margin Deposits at Chincoteague Island, Va:the Holocene Transgression and Resulting Deposits, *In : Slingerland, R. and K.P. Furlong, Sedimentation and Basin Analysis in Siliciclastic Rock Sequences, v. 2, Sedimentology and Thermal-Mechanical History of Basins in the Central Appalachian Orogen, Pennsylvania State University, University, Park, PA.*
12. **Slingerland**, R.L., 1989. Proximal Llewellyn Fm. Of the Alleghanian Clastic Wedge and the History of Anthracite in the United States, *In : Slingerland, R. and K.P. Furlong, Sedimentation and Basin Analysis in Siliciclastic Rock Sequences, v. 2, Sedimentology and Thermal-Mechanical History of Basins in the Central Appalachian Orogen, Pennsylvania State University, University, Park, PA.*
13. **Slingerland**, R.L., 1989. Fold and Thrust Belt Structure, Stratigraphy, and Geomorphology at Skytop, PA, *In: Slingerland, R. and K.P. Furlong (eds.), Sedimentation and Basin Analysis in Siliciclastic Rock Sequences, v. 2, Sedimentology and Thermal-Mechanical History of Basins in the Central Appalachian Orogen, Pennsylvania State University, University, Park, PA.*
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UNREFERREED ARTICLES AND ABSTRACTS

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