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Curriculum Vitae - JOHN E. MYLROIE

PERSONAL DATA:

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Height: 5'11"; Weight: 185 pounds; Health: Excellent;
Born June 13, 1949; Married, three children.

EDUCATION AND HONORS:

September 1974 - May 1977: Rensselaer Polytechnic Institute PhD program, Department of Geology, 58 course credits, 32 research credits. Dissertation title: "Speleogenesis and Karst Geomorphology of the Helderberg Plateau, Schoharie County, New York".

June 1971 - February 1972: U. S. Navy Fleet Sonar "A" School; U. S. Navy Fleet Electronics "A" School; Honor Roll, 1971-1972.

September 1967 - June 1971: Syracuse University BS in Zoology, Summa Cum Laude, 1971; Phi Beta Kappa, 1970; Phi Kappa Phi, 1971; Varsity Letter in Soccer, 1970; "Most Promising Undergraduate Zoology Major", 1971.

PROFESSIONAL EXPERIENCE:

July 1985 - present: Associate Professor of Geology, Mississippi State University; Full Professor, 1987; Head of Department, July 1985 to August 1989.

August 1977 - June 1985: Assistant Professor of Geology, Department of Geosciences, Murray State University; Associate Professor, 1982.

September 1976 - June 1977: Instructor, Rensselaer Polytechnic Institute.

May 1972 - August 1974: Research Assistant, Electronics Laboratory, Biology Department, State University of New York at Albany.

COURSES TAUGHT: Physical Geology, Structural Geology, Historical Geology, Geophysics, Hydrology, Paleocology, North American Landscapes, Karst Geology, Interdisciplinary Physical Science, Geowriting, Oceanography, Water Resources, Geologic Literature, Graduate Seminar, Research Methods, Elderhostel, Gifted and Talented Program, Teachers in Geoscience (TIG) field courses on San Salvador Island, Bahamas; Albany New York; and Mammoth Cave National Park, Kentucky.

PROFESSIONAL MEMBERSHIPS ACTIVITIES AND AWARDS:

1. Research Fellow, Natural Sciences Institute, Summers 1967 & 1968.
2. Member, National Speleological Society (NSS), 1970 to Present. Elected Fellow of the Society, 1976. Chairman, Northeastern Regional Organization of the NSS, 1972-1975. Chairman, NSS Cave Ownership and Management Committee, 1978-1981. Chairman, McFails Cave Committee (research cave owned by the NSS), 1976-1977. Member, Editorial Board of the NSS Bulletin, 1980-1983; member, Advisory Board, 1999-present. Society representative to the Member Society Council of the American Geological Institute, 1987-1989. Awards Committee Science Award subchair, 1994-1998.
3. Secretary of the 8th International Congress of Speleology, 1981.
4. Member, Sigma Xi National Research Honorary, 1977 to Present.
5. Member, Organizing Committee of the 5th National Cave Management Symposium, 1980.
6. Director, First International Cave Management Symposium, 1981.
7. Member, Board of Directors of the Kentucky Conservation Foundation, 1981-1982.
8. Member, Cave Species Specialists Group of the Species Survival Commission, International Union for Conservation of Nature and Natural Resources, 1983 to 1995.
9. Associate Member, Epsilon Epsilon (Murray State University Chapter) Chapter of Sigma Gamma Epsilon, Earth Science Honorary, 1983 to 1985.
10. Member, Geological Society of America, 1983 to Present.
11. Member, British Cave Research Association, 1980 to 2005.
12. Editor, Western Kentucky Speleological Survey Annual Report Series, 1978 to 1985.
13. Member, American Geological Institute, 1985 to present.
14. Co-convener, GSA Penrose Conference on "Late Quaternary Sea Level: The Marine and Terrestrial Record", April 6-12, 1987, Bermuda Biological Station.
15. Instructor of the Summer University in the Park Series, Mammoth Cave National Park: Advanced Cave Exploration and Survey, June 1985, 1989, 1992 and 1995; Cave Resource Management, June 1987; Karst Geology, June 1988 and 1991; Cave Survey and Cartography, June 1990.

16. Co-leader, GSA Field Trip: Pleistocene and Holocene Stratigraphy of San Salvador Island, Bahamas, Oct. 24-27, 1985. Repeated at the request of the Society of Economic Paleontologists and Mineralogists (SEPM), June 10-15, 1986. Co-Leader, 28th I.G.C. Field Trip: Pleistocene and Holocene Carbonate Environments on San Salvador Island, Bahamas, July 2-7, 1989. Convener, 10th Friends of Karst Meeting, San Salvador Island, Bahamas, February 11-15, 1988. Program Chairman, 4th Symposium on the Geology of the Bahamas, San Salvador Island, Bahamas, June 17-22, 1988; Co-Chair 9th Symposium 1998; Field trip leader, 5th (1990), 6th (1992), 7th (1994), 8th (1996), 9th (1998), 11th (2002), 12th (2004), 13th (2006) and 14th (2008) Symposia on the Geology of the Bahamas. Convener, Paleokarst Field Conference, February 17-21, 1995. Member, Research Committee, Bahamian Field Station review proposals for permits and funding support), 1988 to present. Member, Geology Committee, 1980 to present.
17. Co-Convener, Second Karst Waters Institute Planning Conference, Harpers Ferry, WV, March 9-12, 1990; Member, Steering Committee for the Karst Waters Institute, 1988 to 1990. Co-Chair, Karst Waters Institute Planning Committee, 1990-1991; President, Karst Waters Institute, 1991-1995; Board member 1991-present, Secretary, 2001-2004; 2008, Treasurer 2009-present. Organizer or co-organizer of Institute symposia and conferences, 1998, 2002, 2008.
18. Consultant to the National Geographical Society ground water research initiative, November 1990.
19. Distinguished Visiting Professor, American University, 1991.
20. Co-convener, Theme Session 92, Sediments in Karst Systems: Processes, Mechanisms, Interpretation. Geological Society of America annual meeting, 1999.
21. Science Award, National Speleological Society, June 2000, for lifetime achievement in Speleology; Honorary Member Award for exceptional research in Speloology, 2008.
22. Member. Scientific Advisory Committee, Bahamas National Trust (US National Park Service equivalent), 2006 to present.

PUBLICATIONS:

McNaughton, S.J., Campbell, R. S., Freyer, R. A., Mylroie, J. E., and Rodland, K. D., 1974, Photosynthetic Properties and Root Chilling Responses of Altitudinal Ecotypes of *Typha Latifolia* L.: *Ecology*, v. 55, p. 168-172.

Mylroie, J. E. and Palmer, A. M., 1977, Karst Geomorphology of the Cobleskill area, Schoharie County, New York: 49th Annual Meeting of the New York State Geological Association, Guidebook to Field Excursions, p. B7-1 to B7-25.

Mylroie, J. E., 1977, Speleogenesis and Karst Geomorphology of the Helderberg Plateau, Schoharie County, New York: Bulletin II of the New York Cave Survey, 336 p.

Mylroie, J. E., editor, 1978, Western Kentucky Speleological Survey Annual Report, 1978: Murray State University, 55 p.

Mylroie, J. E., 1978, Student Participation in a P and S Wave Demonstration: *The Physics Teacher*, v. 16, p. 479-481.

Cullen, J. L., Mylroie, J. E., and Palmer, A. M., 1979, Karst Hydrology and Geomorphology of Eastern New York: Guidebook for the Geology Field Excursions of the 1979 National Speleological Society Convention, Pittsfield, MA, 83 p.

Moore, F. M. and Mylroie, J. E., 1979, Influence of Master Stream Incision on Cave Development, Trigg County, KY: Western Kentucky Speleological Survey Annual Report, 1979, p. 47-68.

Mylroie, J. E., editor, 1979, Western Kentucky Speleological Survey Annual Report, 1979: Murray State University, 84 p.

Mylroie, J. E., 1979, A Functional Classification of Karst Features: Proceedings of the 1977 NSS Annual Convention, p. 19-26.

Mylroie, J. E. and LaFleur, R. G., 1979, Karst Geomorphology of the Helderberg Plateau, Schoharie County, New York: Proceedings of the 1977 NSS Annual Convention, p. 27-32.

Mylroie, J. E., 1980 Cave Location and Exploration in Schoharie County, New York: Bulletin of the National Speleological Society, v. 42, p. 15-19.

Mylroie, J. E., 1980, Caves and Karst of San Salvador: Field Guide to San Salvador Island, Bahamas, CCFL, Ft Lauderdale, Florida, p. 67-91 (revised, 1983 for the 3rd edition).

Mylroie, J. E., 1981, A Functional Classification of Karst: Proceedings of the 8th International Congress of Speleology, Bowling Green, KY, July 18-26, 1981, p. 686-688.

Mylroie, J. E., 1981, Glacial Controls of Speleogenesis: Proceedings of the 8th International Congress of Speleology, Bowling Green, KY, July 18-26, 1981, p. 689-691.

- Mylroie, J. E., editor, 1981, Western Kentucky Speleological Survey Annual Report, 1980: Murray State University, 79 p.
- Mylroie, J. E., 1982, Selected Cave Management Situations in New York State: Proceedings of the National Cave Management Symposium, Carlsbad, NM, 1978, Mammoth Cave, KY, 1980, p. 1-4.
- Carew, J. L., Mylroie, J. E., and Lively, R., 1982, Bahamian Caves and Sea Level Changes: Bahamas Naturalist, v. 6, no., 2, p. 5-13.
- Mylroie, J. E., editor, 1983, Western Kentucky Speleological Survey Annual Report, 1981: Murray State University, 63 p.
- Mylroie, J. E., 1983, Karst Geology and Pleistocene History of San Salvador Island, Bahamas: *In* Gerace, D. T., ed., Proceedings of the First Symposium on the Geology of San Salvador Island, March 22-25, 1982, CCFL, Ft Lauderdale, Florida, p. 6-11.
- Mylroie, J. E., editor, 1983, Proceedings of the First International Cave Management Symposium, July 15-18, 1981: Murray State University, 171 p.
- Mylroie, J. E., 1983, Interpretation of Karst Features: Management Problems at Clark Reservation State Park, New York. *In* Environmental Karst, P. H. Dougherty, ed. Geospeleo Pub., Cincinnati, OH, p. 77-88.
- Mylroie, J. E., 1984, Hydrologic Classification of Karst Landforms. Groundwater as a Geomorphic Agent, LaFleur, R., ed., Allen and Unwin, Boston, p. 157-172.
- Mylroie, J. E., 1984, Pleistocene Climatic Variation and Cave Development: Norsk Geografisk Tidsskrift, v. 38, p. 151-156.
- Mylroie, J. E., 1984, Speleogenetic Contrast between the Bermuda and Bahama Islands. *In* Teeter, J. W., ed., Proceedings of the Second Symposium on the Geology of the Bahamas, CCFL, Ft. Lauderdale, Florida, p. 113-128.
- Carew, J. L., Mylroie, J. E., Wehmiller, J. F., and Lively, R., 1984, Estimates of Lake Pleistocene Sea Level High Stands from San Salvador, Bahamas. *In* Teeter, J. W., ed., Proceedings of the Second Symposium on the Geology of the Bahamas, CCFL, Ft. Lauderdale, Florida, p. 153-175.
- Mylroie, J. E., editor, 1984, Western Kentucky Speleological Survey Annual Report, 1982 and 1983: Murray State University, 111 p.
- Mylroie, J. E., 1984, Cave Mapping and Management Techniques: Proceedings of the Second Eastern Cave Management Symposium, Illinois Department of Conservation, p. 157-172.
- Mylroie, J. E. and Dyas, M., 1985, Western Kentucky Caves and Karst. *In* Dougherty, P. H., ed., Caves and Karst of Kentucky, Kentucky Geological Survey, p. 119-147.
- Mylroie, J. E., 1985, Western Kentucky Speleological Survey Annual Report, 1984: Murray State University, 84 p.

- Carew, J. L. and Mylroie, J. E., 1985, The Pleistocene and Holocene Stratigraphy of San Salvador Island, Bahamas, with Reference to Marine and Terrestrial Lithofacies at French Bay. *In* Curran, H. A., ed., Pleistocene and Holocene carbonate environments on San Salvador Island, Bahamas - Guidebook for Geological Society of America, Orlando annual meeting field trip, p. 11-61. [Reprinted in 1986 by the Georgia Geological Society and CCFL Bahamian Field Station as Guidebook for Field Trip #1 for the Society of Economic Paleontologists and Mineralogists Annual Meeting in Atlanta, June 10-15, 1986].
- Mylroie, J. E. and Carew, J. L., 1986, Minimum Duration for Speleogenesis: Proceedings of Ninth International Congress of Speleology, Barcelona, Spain, August 1986, v. 1, p. 249-251.
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- Mylroie, J. E., 1987, Influence of Impermeable Beds on the Collapse of Bedrock voids in the Vadose Zone: Proceedings of the Second Multi-disciplinary Confluence on Sinkholes and the Environmental Impacts of Karst, A. A. Balkema, Boston, p. 95-99.
- Carew, J. L. and Mylroie, J. E., 1987, Submerged Evidence of Pleistocene Low Sea Levels on San Salvador, Bahamas: Symposia for Undersea Research, NOAA v. 2, no. 2, p. 167-175.
- Carew, J. L. and Mylroie, J. E., 1987, A Refined Geochronology for San Salvador Island, Bahamas. *In* Curran, H. A., ed., Proceedings of the Third Symposium on the Geology of the Bahamas: Ft. Lauderdale, Florida, CCFL Bahamian Field Station, p. 35-44.
- Mylroie, J. E., ed., 1988, Field Guide to the Karst Geology of San Salvador Island, Bahamas: Department of Geology and Geography, Mississippi State University and CCFL Bahamian Field Station, Fort Lauderdale, Florida, 108 p.
- Mylroie, J. E., 1988, Karst of San Salvador. *In* Mylroie, J. E., ed., Field Guide to the Karst Geology of San Salvador Island, Bahamas: Department of Geology and Geography, Mississippi State University and CCFL Bahamian Field Station, Ft. Lauderdale, Florida, p. 17-44.
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- Mylroie, J. E., 1988, Caves and Karst Features of Sandy Point, San Salvador Island, Bahamas. *In* Mylroie, J. E., ed., Field Guide to the Karst Geology of San Salvador Island, Bahamas: Department of Geology and Geography, Mississippi State University and CCFL Bahamian Field Station, Ft. Lauderdale, Florida, p. 83-96.
- Mylroie, J. E., 1988, The Cave that Shouldn't be There - A Tour of Lighthouse Cave, San Salvador Island, Bahamas. *In* Mylroie, J. E., ed., Field Guide to the Karst Geology of San Salvador Island, Bahamas: Department of Geology and Geography, Mississippi State University and CCFL Bahamian Field Station, Ft. Lauderdale, Florida, p. 97-102.
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Balcerzak, W. J., Myroie, J. E. and Pabst, G. S., 1989, Physical Parameters and Microbial Indicator Organisms of a Carbonate Island Aquifer, San Salvador Island, Bahamas. *In* Beck, B. F., ed., Proceedings of the Third Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst: A. A. Balkema, Brookfield, p. 153-157.

Carew, J. L. and Myroie, J. E., 1989, The Geology of Eastern South Andros Island, Bahamas: a Preliminary Report. *In* Myroie, J. E., ed., Proceedings of the Fourth Symposium on the Geology of the Bahamas: Bahamian Field Station, Port Charlotte, FL, p. 73-81.

Clark, D. D., Myroie, J. E. and Carew, J. L., 1989, Texture and Composition of Holocene Beach Sediment, San Salvador Island, Bahamas. *In* Myroie, J. E. ed., Proceedings of the Fourth Symposium on the Geology of the Bahamas: Bahamian Field Station, Port Charlotte, FL, p. 83-94.

Pace, F. W., Myroie, J. E. and Carew, J. E., 1989, Sedimentology of a Holocene Platform-Margin Carbonate Lagoon: Blackwood Bay San Salvador Island, Bahamas. *In* Myroie, J. E., ed., Proceedings of the Fourth Symposium on the Geology of the Bahamas: Bahamian Field Station, Port Charlotte, FL, p. 253-265.

Stowers, R. E., Myroie, J. E. and Carew, J. L., 1989, Pleistocene Stratigraphy and Geochronology Southwestern San Salvador Island, Bahamas. *In* Myroie, J. E., ed., Proceedings of the Fourth Symposium on the Geology of the Bahamas: Bahamian Field Station, Port Charlotte, FL, p. 323-330.

Myroie, J. E., 1989, Editor, Proceedings of the Fourth Symposium on the Geology of the Bahamas, Bahamian Field Station, Port Charlotte, FL, 381 p.

Vogel, P. N., Myroie, J. E. and Carew, J. L., 1990, Limestone Petrology and Cave Morphology on San Salvador Island, Bahamas: *Cave Science*, v. 17, p. 19-30.

Myroie, J. E. and Carew, J. L., 1990, The Flank Margin Model for Dissolution Cave Development in Carbonate Platforms: *Earth Surface Processes and Landforms*, v. 15, p. 413-424.

Balcerzak, W. J., Myroie, J. E., and Pabst, G. S., 1990, Water Quality of a Carbonate Island Karst Aquifer, San Salvador Island, Bahamas. *In* Krishna, J. H., Quinones-Aponte, V., Gomez-Gomez, F., and Morris, G. L., eds., Proceedings of the International Symposium on Tropical Hydrology and Fourth Caribbean Islands Water Resources Congress, July 23-27, 1990, San Juan, Puerto Rico, p. 421-431.

Myroie, J. E. and Myroie, J. R., 1990, Meander Cutoff Caves and Self Piracy: The Consequences of Meander Incision into Soluble Rocks: *National Speleological Society Bulletin*, v. 52, p. 33-44.

Palmer, A. N., Palmer, M. V., Porter, C. O., Rubin, P. A., and Myroie, J. E., 1991, A Geologic Guide to the

- Karst and Caves of the Helderberg Mountains, Schoharie and Albany Counties, New York. *In* Nardacci, M., ed, Guide to the Caves and Karst of the Northeast, Huntsville, AL, National Speleological Society, p. 105-167.
- Carew, J. L. and Mylroie, J. E., 1991, Some Pitfalls in Paleosol Interpretation in Carbonate Sequences: Carbonates and Evaporites, v. 6, p. 69-74.
- Mylroie, J. E., 1991, Cave Development in the Glaciated Appalachian Karst of New York: Surface-Coupled or Saline-Freshwater Mixing Hydrology? *In* Kastning, E. H. and Kastning, M. K., eds., Proceedings of the Appalachian Karst Symposium, Huntsville, AL, National Speleological Society, p. 85-90.
- Mylroie, J. E. and Carew, J. L., 1991, Erosional notches in Bahamian carbonates: Bioerosion or groundwater dissolution? *In* Bain, R. J. ed., Proceedings of the 5th Symposium on the Geology of the Bahamas: Bahamian Field Station. Port Charlotte, FL, p. 185-191.
- Panuska, B. C., Carew, J. L., and Mylroie, J. E., 1991, Paleomagnetic directions of paleosols on San Salvador Island, Bahamas: Prospects for stratigraphic correlation. *In* Bain, R. J., ed., Proceedings of the 5th Symposium on the Geology of the Bahamas: Bahamian Field Station, Port Charlotte, FL, p. 193-202.
- Vacher, H. L. and Mylroie, J. E., 1991, Geomorphic evolution of topographic lows in Bermudian and Bahamian Islands: Effect of climate. *In* Bain, R. J., ed., Proceedings of the 5th Symposium on the Geology of the Bahamas: Bahamian Field Station, Port Charlotte, FL, p. 221-234.
- Kunze, A. W. G. and Mylroie, J. E., 1991, Use of gravity techniques to detect shallow caves on San Salvador Island, Bahamas. *In* Bain, R. J., ed., Proceedings of the 5th Symposium on the Geology of the Bahamas: Bahamian Field Station, Port Charlotte, FL, p 139-149.
- Mylroie, J. E., Carew, J. L., Sealey, N. E., and Mylroie, J. R., 1991, Cave Development on New Providence Island and Long Island, Bahamas: Cave Science, v. 18, no. 3, p. 139-151.
- Carew, J. L., Mylroie, J. E., and Sealey, N. E., 1992, Field guide to sites of geological interest, western New Providence Island, Bahamas, Field Trip Guidebook - The 6th Symposium on the Geology of the Bahamas, Port Charlotte, Florida, Bahamian Field Station, p. 1-23.
- Mylroie, J. E., 1992, Field trip to Storr's and Stouts Lake, San Salvador Island, Bahamas. Field Trip Guidebook - The 6th Symposium on the Geology of the Bahamas, Port Charlotte, Florida, Bahamian Field Station, p. 41-48.
- Mylroie, J. E., and Balcerzak, W. J., 1992, Interaction of microbiology and karst processes in Quaternary carbonate island aquifers. *In* Stanford, J. A. and Simons, J. J., eds., Proceedings of the First International Conference on Ground Water Ecology, Bethesda, Maryland, American Water Resources Association, p. 37-46.
- Mylroie, J. E. and White, W. B., 1992, Cave Geology. *In* Rea, G. T., ed., Caving Basics. Huntsville, AL, National Speleological Society, p. 123-139.
- Carew, J. E. and Mylroie, J. E., 1993, Penetrative calcretes and their stratigraphic implications: Comment: Geology, v. 21, p. 186.

- Myroie, J. E., 1993, Return of the Coral Reef Hypothesis: Basin to shelf partitioning of CaCO₃ and its effect on atmospheric CO₂: Comment, *Geology*, v. 21, p. 475.
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- Mirecki, J. E., Carew, J. L., and Myroie, J. E., 1993, Precision of amino acid enantiomeric data from fossiliferous Late Quaternary units, San Salvador Island, Bahamas. *In* White, B. ed., Proceedings of the 6th Symposium on the Geology of the Bahamas, Port Charlotte, Florida, Bahamian Field Station, p. 95-101.
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