

Michael R. Simac, PE - Publications

PUBLICATIONS

1. Simac, M.R. "Acquisition & Application of Cyclic Triaxial Test Data," a thesis presented to the University of Missouri in partial fulfillment of a masters degree, 1979
2. Simac, M.R. & Stephens, T.C. "Geotextile Supports Underwater Transmission Lines in Hudson River," Geotechnical Fabrics Report, IFAI, St. Paul, MN, Sept/Oct 1987
3. Simac, M.R. "Generic Geogrid Specifications," Geotechnical Fabrics Report, IFAI, St. Paul, MN, July/August 1988
4. Simac, M.R. "Geogrid Connections" 3rd Annual GRI Conference on The Seaming of Geosynthetics, Dec. 1989, Philadelphia, PA, Elsevier Applied Science, New York NY
5. Simac, M.R., Christopher, B.R., Bonczkiewicz, C.; "Instrumented Field Performance of a 6 m Geogrid Soil Wall," 4th International Conference on Geotextiles, Geomembranes & Related Products, The Hague, Netherlands, 1990.
6. Simac, M.R., "Design Methodology for Miragrid Reinforced Soil Retaining Walls", Mirafi Inc., Charlotte, NC, 1990.
7. Simac, M.R., Bathurst, R.J., Goodrum, R.A. "Design and Analysis of Three Reinforced Soil Retaining Walls", Proceedings of the Geosynthetics '91 Conference, Vol. 2, Atlanta, Feb. 1991, pp 781-789.
8. Bonczkiewicz, C., Christopher, B.R., Simac, M.R. "Load Distribution in Geogrids with Low Junction Efficiency", Proceedings of the Geosynthetics '91 Conference, Vol. 2, Atlanta, Feb. 1991, pp 643-652.
9. Bathurst, R.J., and Simac, M.R., "Review of Three Instrumented Geogrid Reinforced Soil Retaining Walls," Geosynthetics: Design & Performance, Vancouver Geotechnical Society - 6th Annual One Day Symposium, May 1991
10. Bathurst, R.J., Crowe, R.E., Simac, M.R., "Recent Innovations in Modular-Facing Retaining Wall Structures using Geosynthetic Reinforcement" Canadian Geotechnical Conference, Vancouver, BC, May 1991.
11. Simac, M.R. "Reinforced Slopes: A Proven Geotechnical Innovation," Geotechnical Fabrics Report, IFAI, St. Paul, MN, May/June 1992
12. Bathurst, R.J., Simac, M.R., and Berg, R.R., "Review of the NCMA Segmental Retaining Wall Design Manual for Geosynthetic Reinforced Structures," published by Transportation Research Record - 1414, Washington, DC, pp.16-25, 1993
13. Bathurst, R.J., and Simac, M.R., "Laboratory Testing of Modular Unit - Geogrid Facing Connections," STP 1190 Geosynthetic Soil Reinforcement Testing Procedures, S.C.J. Cheng editor, American Society of Testing Materials, Philadelphia, PA, 1993
14. Simac, M.R., Bathurst, R.J., Berg, R.R., and Lothspeich, S.E., "Design Manual for Segmental Retaining Walls," published by NCMA, Herndon, VA, 1993
15. Simac, M.R., "Preventing Failures, A designer's perspective," Invited lecture at Workshop on Geosynthetic Failures, Atlanta, GA Ian Peggs chairman, American Society of Testing Materials, June 1993

16. Simac, M.R., Bathurst, R.J., and Berg, R.R., "New Design Guidelines for Segmental Retaining Walls," Geotechnical Fabrics Report, IFAI, St. Paul, MN, July/August 1993
17. Bathurst, R.J., and Simac, M.R., "Two Computer Programs for the Design & Analysis of Geosynthetic-Reinforced Structures," Geotextiles & Geomembranes, T.S. Ingold editor, Elsevier Applied Science, New York NY, Vol.12, No.5, pp.381-396, 1993
18. Bathurst, R.J., Simac, M.R., Christopher, B.R., and Bonczkiewicz, C.; "A Database of Results from a Geosynthetic Reinforced Modular Block Soil Retaining Wall," Proceedings of Soil Reinforcement: Full Scale Experiments of the 80's, ISSMFE/ENPC, Paris, France, November 1993
19. Simac, M.R. and Simac, J.M., "Specifying Segmental Retaining Walls," Landscape Architecture, Vol.84, No.3, Washington, DC, March 1994
20. Bathurst, R.J., and Simac, M.R., "Geosynthetic Reinforced Segmental Retaining Wall Structures in North America," *Keynote Lecture on Soil Reinforcement*, Proceedings of the 5th International Conference on Geotextiles, Geomembranes & Related Products, Singapore, Sept. 1994.
21. Martin, J.S. and Simac, M.R. "The Design and Construction of 168 m (550 ft.) long Geogrid Reinforced Slopes at the Auburn, NY Landfill Closure", Proceedings of the Geosynthetics '95 Conference, Vol. 2, Nashville, Feb. 1995, pp 771-784.
22. Bathurst, R.J., Simac, M.R., & Sandri, D., "Lessons Learned from the Construction Performance of A 14m high Segmental Retaining Wall," Specialty Conference on Geosynthetics: Lessons Learned from Failures, Giroud, J.P. editor, IFAI, St. Paul, MN, Feb. 1995
23. Bathurst, R.J., and Simac, M.R., "Recent Developments in Reinforced Segmental Retaining Wall Technology in North America," Invited keynote paper; *Geosinteticos '95*, 26-28 June 1995 Sao Paulo Brazil, pp. 17-30.
24. Bathurst, R.J., and Simac, M.R., "Developments in Reinforced Segmental Retaining Wall Structures," 48th Canadian Geotechnical Conference, Vancouver, BC, Sept. 1995
25. Bathurst, R.J., and Simac, M.R. "Software for Segmental Retaining Walls," Geotechnical Fabrics Report, IFAI, St. Paul, MN, September 1995, pp.20-21
26. Simac, M.R., Bathurst, R.J., and Fennessey, T.W., "Case Study of a Hybrid Gabion Basket Geosynthetic Reinforced Soil Wall," Vol.1, No.1, Ground Improvement Journal, Juran, I. editor, Thomas Telford, London, England, 1997, pp.9-17.
27. Simac, M.R., "Comparison of Four Popular Geosynthetic Reinforced Wall Design Methods," *International Symposium on Mechanically Stabilized Backfill Proceedings*, Denver, CO, USA, A.A. Balkema publishers, Rotterdam, Feb. 6-8, 1997, pp. ?-?.
28. Bathurst, R.J., and Simac, M.R., "Design and Performance of the Facing Column for Geosynthetic Reinforced Segmental Retaining Walls," *International Symposium on Mechanically Stabilized Backfill Proceedings*, Denver, CO, USA, A.A. Balkema publishers, Rotterdam, Feb. 6-8, 1997, pp. ?-?.

29. Simac, M.R., "Connection Strength - Panel Discussion: Is there pressure on the facing system?," *International Symposium on Mechanically Stabilized Backfill Proceedings*, Denver, CO, USA, A.A. Balkema publishers, Rotterdam, Feb. 6-8, 1997, pp. ?-?.
30. Simac, M.R., Bathurst, R.J., and Fennessey, T.W., "Design of Gabion-Geosynthetic Retaining Walls on the Tellico Plains to Robbinsville Highway," *Proceedings of the Geosynthetics '97 Conference*, Vol. 1, Long Beach, CA, IFAI, St. Paul, MN March 1997, pp. 105-118.
31. Bathurst, R.J., Cai, Z., and Simac, M.R., "Seismic Performance Charts for Geosynthetic Reinforced Segmental Retaining Walls," *Proceedings of the Geosynthetics '97 Conference*, Vol. 2, Long Beach, CA, IFAI, St. Paul, MN, Mar. 1997, pp. 1001-1014..
32. Simac, M.R., Elton, D.J., and Gale, S.M., Discussion of "Design Method for Geogrid-Reinforced Unpaved Roads, Part I: Development of Design Method," *Journal of Geotechnical & Geoenvironmental Engineering*, ASCE, Reston, VA April 2006, pp. 547-549.
33. Simac, M.R., "Eight Ways to achieve improved retaining wall performance," *Geosynthetics Geosynthetics*, IFAI, St. Paul, MN, April/May 2006, pp. 31-36.