Publications and Scholarly Work

Research interests: Structural graph theory with emphasis on (i) distance notions in graphs including graph convexity and the metric dimension in graphs, (ii) graph connectivity, (iii) local structure versus global structure, including Ryjacek's conjecture and (iv) the path partition conjecture.

Articles Submitted for Publication in Peer Reviewed Journals:

* indicates work with a student or a post-doctoral fellow.

1. Global cycle properties in locally connected, locally traceable, and locally Hamiltonian graphs
   S. van Aardt, M. Frick, O.R. Oellermann and J. de Wet
   (Submitted to Discrete Appl. Math.)

2. Global cycle properties in locally isometric graphs
   A. Borchert*, S. Nicol* and O.R. Oellermann
   arXiv 1506.03310 (Submitted to Discrete Appl. Math.)

3. Global cycle properties in graphs with large minimum clustering coefficient.
   A. Borchert*, S. Nicol* and O.R. Oellermann
   arXiv 1506.03691 (Submitted to Quaestiones Mathematicae)

4. Global properties of locally Dirac and locally Ore graphs.
   E. Kubicka, G. Kubicki and O.R. Oellermann
   arXiv 1506.04114 (Submitted to Discrete Math.)

Articles Accepted for Publication in Peer Reviewed Journals:

1. Generating and enumerating digitally convex sets of graphs.
   P. Lafrance*, O.R. Oellermann and T. Pressey*
   Graphs and Combinatorics (2015) doi 10.1007/s00373-015-1604-8

2. On the simultaneous metric dimension of graph families.
   O.R. Oellermann, Y. Ramirez-Cruz and J.A. Rodriguez-Velazquez.
   Discrete Appl. Math. (2015) doi.org/10.1016/j.dam.2015.06.012

Peer Reviewed Journal Publications:

1. On the spectrum and number of convex sets in graphs.
   J.I. Brown and O.R. Oellermann
   Discrete Math. 338 (2015) (Jan 22) 1144–1153.

2. Reconstructing graphs from digitally convex sets.
   P. Lafrance*, O.R. Oellermann and T. Pressey*
   Discrete Appl. Math. (2014)(Aug 18) doi:10.1016/j.dam.2014.08.018.

3. On the strong metric dimension of Cartesian and direct product graphs.
   D. Kuziak, O.R. Oellermann, J.A. Rodriguez-Velazquez, and I.G. Yero.
   Discrete Math. 335 (2014) (June) 8–19.

4. Characterization of k-traceable graphs and oriented graphs.
   S. van Aardt, J. Dunbar, M. Frick, M. Nielsen* and O.R. Oellermann
   Utilitas Mathematica 90 (2013) 269–281.

5. On domination and digital convexity parameters.
   O.R. Oellermann
   J. Combin. Math. and Combin. Comput. 85 (2013) 273–285.

6. Graphs with a minimal number of convex sets.
   J.I. Brown and O.R. Oellermann
   Graphs and Combinatorics 30(6) (2013) 1383–1397.

7. Local 3-monophonic convexity.
   M. Nielsen* and O.R. Oellermann
   J. Combin. Math and Combin. Comput. 80 (2012) 11–24.

8. Separation properties for 3-Steiner and 3-monophonic convexity in graphs.
   M. Nielsen* and O.R. Oellermann
   Discrete Math. 312 (2012) 3293–3305.

9. Induced trees and monophonic convexity.
   (J. Caceres, O.R. Oellermann and M.L. Puertas)
   Discussiones Math Graph Theory 32 (2012) 685–704.

10. Hamiltonicity of k-traceable graphs.
    S. van Aardt, F. Bullock, P. Dankelmann, M. Frick, M.A. Henning and O.R. Oellermann
    Electronic J. Combinatorics 18 (2011) # P63

11. Helly Theorems for 3-Steiner and 3-Monophonic Convexity in Graphs.
    M. Nielsen* and O.R. Oellermann
    Discrete Math. 311 (2011) 872–880.

12. The strong dimension of distance hereditary graphs.
    T. May* and O.R. Oellermann
    J. Combin. Math. and Combin. Comput. 76 (2011) 59–73.

13. Traceability of k-traceable Oriented Graphs.
    S. van Aardt, J. Dunbar, M. Frick, P. Katrenic, M. Nielsen* and O.R. Oellermann
    Discrete Math. 310 (2010) 1325–1333.

14. Steiner intervals in strongly chordal graphs.
    O.R. Oellermann and S. Phillips
    J. Combin. Math. and Combin. Comput. 68 (2009) 19–31.

15. Local Steiner convexity
    M.A. Henning, M. Nielsen* and O.R. Oellermann
    European J. of Combinatorics 30 (2009) 1186-1193.

16. Steiner trees and convex geometries.
    M. Nielsen* and O.R. Oellermann
    SIAM J. Discrete Math. 23 No.2 (2009) 680–693.

17. Detour saturated oriented graphs.
    S.A. van Aardt, J. Dunbar, M. Frick and O.R. Oellermann
    Utilitas Mathematica 79 (2009) 167–180.

18. On 3-Steiner simplicial orderings of graphs.
J. Caceres and O.R. Oellermann
Discrete Math. 309 (2009) 5828–5833.

19. Geodetic and Steiner geodetic sets in 3-Steiner distance hereditary graphs.
L. Eroh and O.R. Oellermann
Discrete Math. 308 (2008) 4212–4220.

20. A traceability conjecture for oriented graphs.
S. van Aardt, J. Dunbar, M. Frick, M. Nielsen* and O.R. Oellermann
Electronic J. Combinatorics 15(1) (2008) # R150.

21. Steiner intervals and Steiner geodetic numbers in distance hereditary graphs.
O.R. Oellermann and M.L. Puertas
Discrete Math. 307 (2007) 88–96.

22. The strong metric dimension of graphs and digraphs.
O.R. Oellermann and J. Peters-Fransen*
Discrete Appl. Math. 155 (2007) 356–364.

23. The metric dimension of Cayley digraphs.
M. Fehr*, S. Gosselin* and O.R. Oellermann
Discrete Math. 306 (2006) 31–41.

24. The partition dimension of Cayley digraphs.
M. Fehr*, S. Gosselin* and O.R. Oellermann
Aequationes Math. 71 (2006) 1–18.

25. The metric dimension of Cartesian products of graphs.
O.R. Oellermann and J. Peters-Fransen*
Utilitas Mathematica 69 (2006) 33–41.

26. The metric dimension of Cayley digraphs of abelian groups.
O.R. Oellermann, C. Pawluck and A. Stokke
Ars Combinatoria 81 (2006) 97–111.

27. Degree sequences of optimally edge-connected graphs.
P. Dankelmann and O.R. Oellermann
Ars Combinatoria 77 (2005) 161–168.

28. Rebuilding convex sets in graphs.
J. Caceres, A. Marquez, O.R. Oellermann and M.L. Puertas
Discrete Math. 293 (2005) 26–37.

29. The directed path partition conjecture.
M. Frick, S. van Aardt, G. Dlamini, J. Dunbar and O.R. Oellermann
Discussiones Math Graph Theory 25 (2005) 26–37.

30. On upper domination Ramsey numbers for graphs.
M.A. Henning and O.R. Oellermann
Discrete Math. 274 (2004) 125–135.

31. Bipartite rainbow Ramsey numbers.
L.Eroh and O.R. Oellermann
Discrete Math. 277 (2004) 57–72.

32. The average connectivity of a digraph.
M.A. Henning and O.R. Oellermann
Discrete Appl. Math. 140 (2004) 143–153.

33. Metric-locating dominating sets in graphs.
M.A. Henning and O.R. Oellermann
Ars Combinatoria 73 (2004) 129–141.

34. Minimum average distance of orientations of graphs.
P. Dankelmann, O.R. Oellermann and J.-L. Wu*
Discrete Appl. Math. 143 (2004) 201–212.

35. On m-chromatic factorizations of complete graphs.
G. Chartrand, H. Hevia and O.R. Oellermann
J. Combin. Math. and Combin. Comput. 47 (2003) 3–17.

36. Bounds on the average connectivity of a graph.
P. Dankelmann and O.R. Oellermann
Discrete Appl. Math. 129 (2003) 305–318.

37. Distance domination critical graphs.
M.A. Henning, O.R. Oellermann and H.C. Swart
J. Combin. Math. and Combin. Comput. 44 (2003) 33–45.

38. Augmenting trees so that every three vertices lie on a cycle. (P.Dankelmann, W.D. Goddard, O.R. Oellermann and H.C. Swart) Discrete Appl. Math. 116 (2002) 145–159.

39. The average connectivity of a graph.
L.W. Beineke, O.R. Oellermann and R.E. Pippert
Discrete Math. 252 (2002) 31–45.

40. The upper domination Ramsey number u(3,3,3).
M.A. Henning and O.R. Oellermann
Discrete Math. 242 (2002) 103–113.

41. The average connectivity of regular multipartite tournaments.
M.A. Henning and O.R. Oellermann
Austral. J. Combin. 23 (2001) 101–113.

42. The metric dimension and metric independence of a graph.
J. Currie and O.R. Oellermann
J. Combin. Math. Combin. Comput. (2001) 157–167.

43. Bounds on the total redundance and efficiency of a graph.
W.D. Goddard, O.R. Oellermann, P. Slater and H.C. Swart
Ars Combinatoria 54 (2000) 129–138.

44. Resolvability in graphs and the metric dimension of a graph.
G. Chartrand, L. Eroh,M. Johnson and O.R. Oellermann
Discrete Appl. Math. 105 (2000) 99–113.

45. On the irregularity cost of a tree.
O.R. Oellermann
J. Combin. Math. Combin. Comput. 33 (2000) 181–192.

46. Bipartite Ramsey numbers and Zarankiewicz numbers.
M.A. Henning,W.D. Goddard and O.R. Oellermann
Discrete Math. 219 (2000) 85–95.

47. On Steiner centers and Steiner medians of a graph.
O.R. Oellermann
NETWORKS. 34 (1999) 258–263.

48. On three conjectures of GRAFFITI.
P. Dankelmann, O.R. Oellermann and H.C. Swart
J. Combin. Math. Combin. Comput. 26 (1998) 131–137.

49. Steiner intervals in graphs.
E. Kubicka, G. Kubicki and O.R. Oellermann
Discrete Appl. Math. 81 (1998) 181–190.

50. Bipartite Ramsey theorems for multiple copies of.
M.A. Henning and O.R. Oellermann
Utilitas Mathematica 54 (1998) 13–23.

51. Bounds on the size of graphs with given order and l-connectivity.
D.P. Day*, O.R. Oellermann and H.C. Swart
Discrete Math. 198 (1998) 217–223.

52. The chromatic number of a factorization of a graph.
G. Chartrand, H. Hevia and O.R. Oellermann
Bull. Inst. Combin. Applic. 20 (1997) 33–56.

53. A characterization of 3-Steiner distance hereditary graphs.
D.P. Day*, O.R. Oellermann and H.C. Swart
NETWORKS 30 (1997) 243–253.

54. The irregularity cost of a graph.
F. Harary and O.R. Oellermann
Computers and Mathematical Applications 34 (1997) 59–63.

55. On the average Steiner distance of a graph with prescribed properties.
P. Dankelmann, O.R. Oellermann and H.C. Swart
Discrete Appl. Math. 79 (1997) 91–103.

56. The average Steiner distance of a graph.
P. Dankelmann, O.R. Oellermann and H.C. Swart
J. Graph Theory 22 (1996) 15–22.

57. On the Steiner median of a tree.
L.W. Beineke, O.R. Oellermann and R.E. Pippert
Discrete Appl. Math. 68 (1996) 249–258.

58. An algorithm to find two distance domination parameters in a graph.
G. Fricke, M.A. Henning, O.R. Oellermann and H.C. Swart
Discete. Appl. Math. 68 (1996) 85–91.

59. On the diversity of domination.
M.A. Henning, O.R. Oellermann and H.C. Swart
Discrete Math. 101 (1996) 161–173.

60. Local edge-domination critical graphs.
M.A. Henning, O.R. Oellermann and H.C. Swart
Discrete Math. 101 (1996) 175–184.

61. From Steiner centers to Steiner medians in graphs.
O.R. Oellermann
J. Graph Theory 20 (1995) 113–122.

62. Relating pairs of distance domination parameters.
M.A. Henning, O.R. Oellermann and H.C. Swart
J. Combin. Math. Combin. Comput. 18 (1995) 233–244.

63. On a polynomial algorithm for testing whether a graph is 3-Steiner distance hereditary.
O.R. Oellermann and J. Spinrad
Inform. Proc. Letters 55 (1995) 149–154.

64. Relationships between distance domination parameters.
M.A. Henning, O.R. Oellermann and H.C. Swart
Mathematica Pannonica 5(1) (1994) 69–79.

65. Steiner distance hereditary graphs.
D.P. Day, O.R. Oellermann and H.C. Swart
SIAM J. Discrete Math. 7 (1994) 437–442.

66. Steiner distance stable graphs.
W.D. Goddard, O.R. Oellermann and H.C. Swart
Discrete Math. 132 (1994) 65–73.

67. The l-connectivity of a digraph.
D.P. Day, O.R. Oellermann and H.C. Swart
Discrete Math. 127 (1994) 95–104.

68. Distance hereditary graphs and multidestination message routing in multicomputers.
A. Esfahanian and O.R. Oellermann
J. Combin. Math. Combin. Comput. 13 (1993) 213–222.

69. Which trees are uniquely framed by the Heawood graph?
W.D. Goddard, M.A. Henning, O.R. Oellermann and H.C. Swart
Quaestiones Mathematicae 16(3) (1993) 237–251.

70. Some general results on the framing number of a graph.
W.D. Goddard, M.A. Henning, O.R. Oellermann and H.C. Swart
Quaestiones Mathemticae 16(3) (1993) 289–300.

71. A new algorithm for finding an upper bound for the genus of a graph.
D.I. Carson and O.R. Oellermann
South African Computer J. 8 (1992) 12–23.

72. Conditional connectivity defined by hereditary properties.
O.R. Oellermann
NETWORKS 21 (1991) 245–255.

73. On multipartite tournaments.
W.D. Goddard, G. Kubicki, O.R. Oellermann and S. Tian
J. Combin. Theory Ser.(B) 52 (1991) 284–300.

74. Bounds on distance domination.
M.A. Henning, O.R. Oellermann and H.C. Swart
J. Comp. Inf. Syst. Science 16 (1991) 11–18.

75. Subgraph distance in graphs.
G. Chartrand, K.S. Holbert, G.L. Johns and O.R. Oellermann
J. Comp. Inf. Syst. Science 16 (1991) 67–85.

76. The l-connectivity function of trees and complete multipartite graphs.
D.P. Day*, O.R. Oellermann and H.C. Swart
J. Combin. Math. Combin. Comput. 10 (1991) 183–192.

77. On the Steiner radius and Steiner diameter of a graph. Ars Combinatoria 29C (1990) 13-19.
with M.A. Henning and H.C. Swart

78. Steiner numbers in graphs.
O.R. Oellermann
Quaestiones Math. (1990) 159–164.

79. Steiner centers in graphs.
O.R. Oellermann and S. Tian
J. Graph Theory 14 (1990) 585–597.

80. What graphs are these?
O.R. Oellermann
South African J. Science 86 (1990) 190–191.

81. A new approach to distance stable graphs.
W.D. Goddard, O.R. Oellermann and H.C. Swart
J. Combin. Math. Combin. Comput. 8 (1990) 209–220.

82. Greatest common subgraphs with specified properties.
G. Chartrand, O.R. Oellermann F. Saba and H.B. Zou
Graphs and Combinatorics 5 (1989) 1–14.

83. Major n-connected graphs.
O.R. Oellermann
J. Austral. Math. Soc. 47 (1989) 43–52.

84. A matter of degree.
G. Chartrand, H. Hevia, O.R. Oellermann. F. Saba and A.J. Schwenk
SIAM J. Discr. Math. 2 (1989) 456–466.

85. Steiner distance in graphs.
G. Chartrand, O.R. Oellermann, S. Tian and H.B. Zou
Casopis Pest. Mat. 114 (1989) 399–410.

86. How to define an irregular graph.
G. Chartrand, P.Erdös and O.R. Oellermann
College Math. J. 19 (1988) 36–42.

87. The connected cutset connectivity of a graph.
O.R. Oellermann
Discrete Math. 69 (1988) 301–308.

88. Variations on a theorem of Petersen.
K.S. Bagga, L.W. Beineke, G. Chartrand and O.R. Oellermann
Period. Math. Hungar. 19 (1988) 241–247.

89. The F-connectivity of a graph.
P.J. Malde and O.R. Oellermann
Scientia 1 (1988) 65–71.

90. Highly irregular graphs.
Y. Alavi, G. Chartrand, F.R.K. Chung, P. Erdös, R.L. Graham and O.R. Oellermann
J.Graph Theory 11 (1987) 235–249.

91. On the l-connectivity of a graph.
O.R. Oellermann
Graphs and Combinatorics 3 (1987) 285–291.

92. F-degrees in graphs.
G. Chartrand, K.S. Holbert, O.R. Oellermann and H.C. Swart
Ars Combinatoria 24 (1987) 133–148.

93. Maximum matching in cubic graphs with a bounded number of bridge covering paths.
G. Chartrand, S.F. Kapoor and O.R. Oellermann
Bull. Austral. Math. Soc. 36 (1987) 441–447.

94. Randomly H graphs.
G. Chartrand, O.R. Oellermann and S. Ruiz
Math. Slovaca 36 (1986) 126–136.

95. An Eulerian exposition.
L. Lesniak and O.R. Oellermann
J.Graph Theory 10 (1986) 277–297.

96. Bipartite regulation numbers.
Y. Alavi, G. Chartrand, L. Lesniak and O.R. Oellermann
Discrete Math. 62 (1986) 113–118.

97. The uniformity number of a graph.
G. Chartrand, O.R. Oellermann, F. Saba and H.B. Zou
Indian J. Math. 28 (1986) 1–7.

98. Connected graphs containing a given connected graph as a unique greatest common subgraph.
G. Chartrand, M. Johnson and O.R. Oellermann
Aequationes Math. 31 (1986) 213–222.

99. Randomly n-cyclic digraphs.
G. Chartrand, O.R. Oellermann and S. Ruiz.
Graphs and Combinatorics 1 (1985) 29–40.

100. On the regulation number of a multigraph.
G. Chartrand, F. Harary and O.R. Oellermann
Graphs and Combinatorics 1 (1985) 137–144.

101. Some applications of graph theory.
G. Chartrand and O.R. Oellermann
Bull. Bombay Math. Colloq. 2 (1985) 55–78.

102. Graphs for which all strong orientations are Eulerian.
O.R. Oellermann and H.C. Swart
Exposition Math. 2(1984) 183–184.

Peer Reviewed Proceedings of Meetings:

1. Menger-type results for three or more vertices.
Hugh Hind and O.R. Oellermann
Congressus Numerantium (Nash-Williams retirement Volume) 113 (1996) 179–204.

2. Connectivity and edge-connectivity in graphs: A survey.
O.R. Oellermann
Congressus Numernatium 115/116 (1996) 231–252.

3. Unique Steiner eccentric graphs.
M.A. Henning, O.R. Oellermann and H.C Swart
Proc. 7th Quadrennial Conference on the Theory and Applications of Graphs. (1995) 1123–1134.

4. Steiner distance in graphs with emphasis on eccentricity measures: A survey.
O.R. Oellermann
Congressus Numerantium 99 (1994) 206–211.

5. Computing the average distance of distance hereditary graphs in linear time.
O.R. Oellermann
Congressus Numerantium 103 (1994) 219–223.

6. The irregularity cost or sum of a graph.
   F. Harary, M.S. Jacobson, E. Kubicka, G. Kubicki and O.R. Oellermann
   Appl. Math. Lett. 6 (1993) 79–80.

7. On the cycle structure of multipartite tournaments.
   W.D. Goddard and O.R. Oellermann
   Proc. of the 6th Quadrennial International Kalamazoo Conference on the Theory and Applications of Graphs. John Wiley and Sons, New York (1991) 525–533.

8. On vertices with maximum Steiner eccentricity in graphs.
   M.A. Henning, O.R. Oellermann and H.C. Swart
   Graph Theory, Combinatorics, Algorithms and Applications. (eds. Y. Alavi, F.R.K. Chung, R.L. Graham, and D.F. Hsu) SIAM Publications. (1991) 393–403.

9. Distance: A graphical tour.
   G. Chartrand, O.R. Oellermann and M. Schultz
   Graph Theory, Combinatorics, Algorithms and Applications. (eds. Y. Alavi, F.R.K. Chung, R.L. Graham and D.F. Hsu)

10. A new algorithm for finding an upper bound for the genus of a graph.
    D.I. Carson and O.R. Oellermann
    Proc. 6th South African Computer Symposium (1991) 276–315.

11. Least common supergraphs of graphs.
    G. Chartrand, H. Hevia, G. Kubicki, O.R. Oellermann, F. Saba and H.B. Zou
    Congressus Numerantium 72 (1990) 109–114.

12. On the edge-independence number of a regular graph with large edge connectivity.
    I. Broere, G. Chartrand, O.R. Oellermann and C. Wall
    Proc. of 3rd International Conference on Combin. Math. (eds. G. Bloom, R.L. Graham and J. Malkevitch) Annanls of the New York Academy of Sciences 555 (1989) 94–102.

13. Degree uniform graphs.
    G. Chartrand, L. Lesniak, C.M. Mynhardt and O.R. Oellermann
    Proc. Of 3rd International Conference on Combin. Math. (eds. G. Bloom, R.L. Graham and J. Malkevitch) Annanls of the New York Academy of Sciences 555 (1989) 122-132.

14. An introduction to Eulerian graphs.
    L. Lesniak and O.R. Oellermann
    Proc. 250th Anniversary Conf. on Graph Theory. Congressus Numerantium. 64 (1988) 7–12.

15. Degree representative trees in graphs.
    G. Chartrand, O.R. Oellermann and H.C. Swart
    Proc. 250th Anniversary Conf. on Graph Theory. Congressus Numerantium. 64 (1988) 73–79.

16. Irregular networks.
    G. Chartrand, M.S. Jacobson, J. Lehel, O.R. Oellermann, S. Ruiz and F. Saba
    Proc. 250th Anniversary Conf. on Graph Theory. Congressus Numerantium. 64 (1988) 197–210.

17. k-Path irregular graphs.
    Y. Alavi, A.J. Boals, G. Chartrand, P.Erdös and O.R. Oellermann
    Congressus Numerantium 65 (1988) 201–210.

18. Explorations into graph connectivity.
    O.R. Oellermann
    Notices South African Math. Soc. 20 (1988) 117–151.

19. The ascending subgraph decomposition problem.
    Y. Alavi, A.J. Boals, G. Chartrand, P. Erdös
    Congressus Numerantium. 58 (1987) 7–14.

20. A note on the l-connectivity function of a graph.
    O.R. Oellermann
    Congressus Numerantium 60 (1987) 181–188.

Books:

1. Academic consultant for "Topics in Structural Graph Theory" (eds. L.W. Beineke and R.J. Wilson) Cambridge University Press, 2013.

2. Applied and Algorithmic Graph Theory (G. Chartrand and O.R. Oellermann) McGraw Hill, New York, 1993.

3. Refereed Proceedings of the 6^th Kalamazoo International Conference on the Theory and Applications of Graphs. (eds. Y. Alavi, G. Chartrand, O.R. Oellermann and A.J. Schwenk) John Wiley and Sons, New York, 1991.

Book Chapters:

1. Menger's Theorem
   O.R. Oellermann
   Chapter 1 in Structural Graph Theory (eds. L.W. Beineke and R. J. Wilson) Cambridge University Press (2013) 13-39.

2. Distance in Graphs
   W. Goddard and O.R. Oellermann
   Chapter 3 in Structural Analysis of Complex Networks (ed. Matthias Dehmer) Birkauser (2011) 49-72.

Other Publications (e.g. Contributions to Books):

1. On the Steiner periphery and Steiner eccentricity of a graph.
   O.R. Oellermann and H.C. Swart
   Topics in Combinatorics and Graph Theory (eds. R. Bodendiek and R. Henn) Physica Verlag Heidelberg (1990) 541–547.

2. On peripheral vertices in graphs.
   G. Chartrand, G.L. Johns and O.R. Oellermann
   Topics in Combinatorics and Graph Theory (eds. R. Bodendiek and R. Henn) Physica Verlag Heidelberg (1990) 193–199.

3. The theory and applications of greatest common subgraphs.
   G. Chartrand, M. Johnson, G. Kubicki and O.R. Oellermann
   Contemporary Methods in Graph Theory (ed. R. Bodendiek) Wissenschaftsverlag, Mannheim (1990) 621–638.

4. Steiner n-eccentricity sequences of graphs.
   O.R. Oellermann and S. Tian
   Recent Studies in Graph Theory. (eds. V.R. Kulli) Vishwa International Publications. (1989) 206–211.

5. The mean integrity of a graph.
   G. Chartrand, S.F. Kapoor, T.A. McKee and O.R. Oellermann
   Recent Studies in Graph Theory. (eds. V.R. Kulli) Vishwa International Publications. (1989) 70–80.

6. m_3^3-convex geometries are A-free. **arXiv:1107:1048**
   J. Caceres, O.R. Oellermann and M.L. Puertas
   (2011) 15 pages.

Unpublished Documents:

1. Aspects of high traceability in graphs: M.Sc. Thesis, University of Natal (1983).

2. Connectivity in Graphs: PhD Thesis, Western Michigan University (1986).

3. Introductory Calculus Text. (B. Bector, J. Currie, J. Ginsburg, D. Grant, V. Linek, O.R. Oellermann and T. Visentin.) (2000)

Invited and Keynote Presentations (since 1999):

1. The Simultaneous Metric Dimension of Graph Families, Invited presentation in a mini-isymposium on 'Metric Dimension and related Parameters', presented at the 8th Slovenian Conference on Graph Theory, Kranjska Gora, June 21-27, 2015.

2. Graph Classes and Convexity. Invited presentation in a special session on 'Structured Families of Graphs', at the 45th Southeastern Conference of Combinatorics, Graph Theory and Computing, Boca Raton Florida, March 3-7, 2014.

3. Reconstructing a Graph from its Digitally Convex Sets. Keynote address given at the Symposium on Games and Graphs, Prince Edward Island, October 20, 2013.

4. Domination and Digital Convexity Parameters. Presented in a mini-symposium on domination in graphs at the CanaDAM meeting, St. Johns New Foundland, CANADA, June 10-13, 2013.

5. Invited mini symposium organizer on Structural Graph Theory at the Society for Industrial and Applied Mathematics (SIAM) Discrete Mathematics conference held in Halifax NS, June 18-21, 2012. Talk presented in this mini symposium: Convexity and Graph Classes.

6. The average connectivity of graphs and digraphs. Presented in the Combinatorics session of the Canadian Math. Society, Regina SK, June 1-5, 2012.

7. Convexity in graphs. Presented at the Prairie Discrete Math Workshop University of Calgary, May 4-5, 2012.

8. Separation properties for 3-Steiner and 3-Monophonic convexity in graphs. Presented in a minisymposium on Metric Graph Theory, at the 7th Slovenian International Conference on Graph Theory, Bled Slovenia, June 19-24, 2011.

9. Separation properties for 3-Steiner and 3-Monophonic convexity in graphs. Presented in a minisymposium on Convexity and Metric Graph Theory II at the CanaDAM 2011 meeting, May 31 -June 3, 2011.

10. The different dimensions of distance in graphs. Plenary lecture presented at the Prairie Network for Research in the Mathematical Sciences. Winnipeg, May 1-2, 2010.

11. Graph classes determined by convexity notions in graphs. Presented in the special session on Extremal and Probabilistic Combinatorics at the AMS Central Section Meeting in St. Paul, April 10-11, 2010.

12. On graph classes determined by convexity in graphs. Presented as part of an invited minisymposium of the SIAM meeting for Discrete Mathematics, held at Burlington Vermont USA, June 16-19, 2008.

13. Local convexity in graphs. Presented at the 5th Prairie Discrete Mathematics Workshop, held at the University of Manitoba, May 29-30, 2008.

14. Local convexity in graphs. Presented at the Ottawa-Carleton Discrete Mathematics days, Carleton University, May 8-11, 2008 (expenses covered by the Fields Institute).

15. Exploring mathematical networks. Presented as part of the Brown Bag Lecture Series at the University of Winnipeg, Sept, 2007.

16. Steiner convex geometries. Presented at the the Canadian Mathematics Society Summer meetings in a special Finite Combinatorics Session, Winnipeg, June 1-3, 2007.

17. The strong metric dimension of graphs. Presented at the Canadian Mathematics Society Winter Meetings, Victoria, December 2006.

18. Convexity notions in graphs. Presented at the International Workshop on Metric and Convex Graph Theory. Barcelona Spain, June 2006.

19. Distance, dimension and detecting locations in networks, Presented at the Women in Science conference, University of Winnipeg, November 2005.

20. Contour vertices and convexity notions in graphs. Presented at the Graphs and Matroids Session of the Canadian Mathematics Socociety Meetings, Vancouver, December 2003.

21. Contour vertices and their application to convexity notions in graphs. Presented at the Eighteenth Clemson Mini-Conference on Combinatorial Optimization, University of South Carolina, Clemson USA, October 2003.

22. Contour vertices and their application to convexity notions in graphs. Presented at the First Prairie Discrete Mathematics Workshop, University of Regina, October 2003.

23. Steiner geodetic numbers in graphs. Presented at the joins AMS/RSME meetings held in Seville Spain, June 2003.

24. The average connectivity of a graph. Presented at the South African International Graph Theory Conference held at Ithala, Natal, South Africa, June 18-22, 2001.

25. Steiner distance in graphs and centrality measures and structures. An all Institute presentation at the DIMACS conference on Distance and Centrality Concepts in Graphs held at RUTCOR Rutgers University, New Jersey USA, July 17-21, 2000.

26. Steiner distances in graphs: A survey. The ninth Quadrennial International Conference in Graph Theory, Combinatorics, Algorithms and Applications at Western Michigan University, Kalamazoo Michigan, June 4-9, 2000.

27. The average connectivity of graphs and digraphs. Symposium given at the 32nd Midwest Graph Theory Meeting at Indiana University-Purdue University at Fort Wayne. Oct. 28-30, 1999.