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Name: Joseph B. Klerlein

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Date and Place of Birth: December 16, 1948
Baltimore, MD

Earned Degrees:

B.S. - Furman University, 1970 - Mathematics

Ph.D. - Vanderbilt University, 1975 - Mathematics

Honors:

Was graduated magna cum laude - Furman University (1970)

Recipient of the Bill Delany Mathematics Medal - Furman
University (1970)

Awarded permanent tenure - Western Carolina University (1978)

Recipient of Chancellor's Distinguished Teaching Award (1985)

Record of Experience:

<u>Institution</u>	<u>Date</u>	<u>Rank</u>
Vanderbilt University	9/70-12/73	Teaching Fellow
Western Carolina Univ.	1/74-9/75	Instructor
Western Carolina Univ.	9/75-9/80	Assistant Professor
Western Carolina Univ.	9/80-9/85	Associate Professor
Western Carolina Univ.	9/85-1/09	Professor
Western Carolina Univ.	1/09-Present	Professor Emeritus

Professional Development:

i) Research Papers:

- (1) (with D.L. Greenwell and R.L. Hemminger)
"Forbidden Subgraphs," Proceedings of the Fourth Southeastern Conference on Combinatorics, Graph Theory and Computing. 1973, 389-394.
- (2) "Characterizing Line Dipseudographs," Proceedings of the Sixth Southeastern Conference on Combinatorics, Graph Theory, and Computing. 1975, 429-442.
- (3) (with R.L. Hemminger), "Line Pseudodigraphs," Journal of Graph Theory. 1977, 365-377.
- (4) "Hamiltonian Cycles in Cayley Color Graphs," Journal of Graph Theory. 1978, 65-68.
- (5) (with A.G. Starling), "Hamiltonian Cycles in Cayley Color Graphs of Semi-Direct Products," Proceedings of the Ninth Southeastern Conference on Combinatorics, Graph Theory, and Computing. 1978, 411-435.
- (6) (with A.G. Starling), "Hamiltonian Cycles in Cayley Color Graphs of Some Special Groups," Proceedings of the Tenth Southeastern Conference on Combinatorics, Graph Theory, and Computing. 1979, 595-599.
- (7) (with A.G. Starling), "Hamiltonian Groups are Color-Graph-Hamiltonian," Journal of Graph Theory. 1981, 197-199.
- (8) "Irrational Arguments," The Mathematics Teacher. 1982, 546.
- (9) (with A.G. Starling), "On the Reverse of a Permutation," Fourteenth Southeastern Conference on Combinatorics, Graph Theory, and Computing. 1983, 127-136.
- (10) "An Eulerian Look at Jogging Trails," Dimensions in Mathematics 6(1986), 21-23.
- (11) (with C. Fullbright), "Transition from Bubble Sort to Shell Sort," ACM SIGCSE Technical Symposium, V20, 1988, 183-4.

- (12) "Cures for the Subtract-Malady? An Alternate Look at Subtraction," Centroid XVI, 1989, 20-22.
- (13) (with E. Carr), "Hamiltonian Cycles in $C_n X_2 C_m$ ", Congressus Numerantium 76 (1990), 167-171.
- (14) (with E. Carr), "Hamiltonian Cycles in $C_n X_5 C_m$ ", Congressus Numerantium 83 (1991), 213-221.
- (15) (with Sheh Chong Chen and E. Carr), "On Hamiltonian Cycles in $C_n X_2 C_m$ ", Congressus Numerantium 95 (1993), 131-142.
- (16) (with E. Carr), " On Hamiltonian Cycles in $C_n X_5 C_m$ ", Congressus Numerantium 101 (1994), 209-216.
- (17) " On Hamiltonian Cycles in $C_n X_{2,t} C_m$ ", Congressus Numerantium 107 (1995), 199 - 208.
- (18) (with S. Sportsman), "Generalizations of a Mathematical Olympiad Problem", The College Mathematics Journal 27 (1996), 296-297.
- (19) "On the Sum of n Dice", Crux Mathematicorum 22 (1996), 145-148.
- (20) (with S. Sportsman and C Wallis), " On Permanents of Adjacency Matrices", Congressus Numerantium 118 (1996), 185-191.
- (21) (with A. Starling), "Vertex Disjoint Coverings of a Cayley Color Graph", Congressus Numerantium 119 (1996), 97-103.
- (22) (with E. Carr), " On Hamiltonian Cycles in $C_n X C_m$ ", Congressus Numerantium 121 (1996), 97-103.
- (23) (with S. Sportsman and C Wallis), " On Permanents of Adjacency Matrices of Iterated Line Digraphs", Congressus Numerantium, 125 (1997), 119-127.
- (24) (with S. Sportsman and A. G. Starling), "An Algorithm for n-realizable Partitons of $n(n+1)/2$ ", Congressus Numerantium, 138 (1999), 5 - 11.
- (25) (with A. G. Starling), "Ascending Subgraph Decompositon and

n-realizable Partitons Integers", *Congressus Numerantium*, 146 (2000), 147 - 152.

- (26) (with E. Carr), "On Hamiltonain Cycles in $C_n X_{2,2} C_m$ ", *Congressus Numerantium*, 147 (2000), 145 - 151.
- (27) (with E. Carr, S. Sportsman, and A. Starling), "On the Digraph $P(n,k)$ ", *Congressus Numerantium*, 155 (2002), 89-93.
- (28) (with S. Sportsman), "Permanents of Power Graphs", *Congressus Numerantium*, 159 (2002), 63-67.
- (29) (with E. Carr, J. Kier, and A. Starling), "Generating Cycles in the Digraph $P(n,k)$: An Algorithm", *Congressus Numerantium*, 162 (2003), 129-137.
- (30) (with E. Carr, and A. Starling), "Hamiltonian Cycles in $C_n X C_m -RT_k$ ", *Congressus Numerantium*, 170 (2004), 129-141.
- (31) (with E. Carr), "Hamiltonian Cycles in $C_n X C_m -S_k$ ", *Congressus Numerantium*, 176 (2005) 175-189.
- (32) (with E. Carr), "More On Hamiltonian Cycles in $C_n X C_m -S_k$ ", *Congressus Numerantium*, 179 (2006) 129-138.
- (33) (with E. Carr), " A Sufficient Condition for Hamiltonian Cycles in $C_n X C_m -S_k$ ", *Congressus Numerantium*, 186 (2007) 117-128
- (34) (with E. Carr), " Hamiltonicity in $C_n X C_m$ After a Single Push", *Congressus Numerantium*, to appear.

ii) Reviews Written for Mathematical Reviews:

- (1) "Hamiltonian Cycles in Regular Graphs," by B. Bollobas, 1979.
- (2) "Hamiltonian Circuits and Long Circuits," by G. Dirac, 1979.

- (3) "Les Graphes De Cayley De Connectivite Un," by M. Watkins, 1981.
- (4) "Demonstration Simple Du Theoreme De Kuratowski De Sa Forme Duale," by J. Fournier, 1981.
- (5) "Consanguinity Graphs," by J. Florence, 1981.
- (6) "On Reconstructing Spanning Subgraphs," by W. Kocay, 1982.
- (7) "Hamiltonian Cycles in Particular k-Partite Graphs," by J. Ayel, 1983.
- (8) "Enumeration of Hamiltonian Paths in Cayley Diagrams," by D. Housman, 1983.
- (9) "Explicit Constructions of Graphs without Short Cycles and Low Density Codes," by G. Margulis, 1983.
- (10) "On Hamiltonian Circuits in Cayley Diagrams," by D. Witte, 1983.
- (11) "The Conjunction of Cayley Digraphs," by K. Keating, 1983.
- (12) "On the Even Elementary Circuits of a Finite Digraph," by D. Marcu, 1984.
- (13) "A Counterexample to a Conjecture of Grant," by M. Cai, 1984.
- (14) "On Hamiltonian Circuits in Cartesian Products of Cayley Digraphs," by D. Witte et al., 1984.
- (15) "On Some Problems Related to the Fundamental Cycle Sets of a Graph," by M. Syslo, 1984.
- (16) "Ringings in the Changes," by A. White, 1985.
- (17) "Cycles in Graphs," by D. Holton, 1985.
- (18) "Another Proof of Bela Bollobas' Theorem on Edge Disjoint Cycles," by M. Tsuchiya, 1985.

- (19) "Some Problems Concerning Distance and Path Degree Sequences," by Bloom et al, 1985.
- (20) "New Sufficient Conditions for Cycles in Graphs," by Geng-Hua Fan, 1985.
- (21) "A Refinement of Kuratowski's Theorem," by C. Thomassen, 1986.
- (22) "Some Results Concerning the Reconstruction Conjecture," by V. Nydl, 1986.
- (23) "Reconstruction of Hypertrees," by H. Senge, 1986.
- (24) "Some Extensions of Ore's Theorem," by SchMichel and Hayes, 1987.
- (25) "Hamiltonian Cycles & Quotients of Bipartite Graphs" by J.J. Dejter, 1987.
- (26) Longest Cycles in Regular Graphs, by G. Fan, 1987.
- (27) Longest Circuits in 3-connected Graphs, by H.A. Jung, 1987.
- (28) On Hamilton Cycles in 3-connected Cubic Graphs, by B. Richmond et al, 1987.
- (29) Some Hamiltonian Cayley Graphs, by D.L. Power, 1987.
- (30) Longest Cycles in 3-connected Planar Graphs, by L. Clark, 1987.
- (31) A Note on Degree Conditions for Hamiltonian Cycles in Line Graphs, by D. Bauer, 1987.
- (32) Cayley Digraphs of Prime-power Order are Hamiltonian, by D. Witte, 1987.
- (33) Ringing the Changes II, by A.T. White, 1987.

- (34) On Set Reconstructing Certain Properties of Graphs by S.K. Das, 1987.
- (35) Sur les Graphs Tracables les Moins Hamiltoniens, by Zamferiscu, 1988.
- (36) Cycles in k -connected Graphs Whose Deletion Results in a $(k-2)$ -connected Graph, by Y. Egawa, 1988.
- (37) Long Cycles in Revolving Door Graphs, by Dijter and Quintana, 1989.
- (38) La $(n-4)$ -reconstructibilite des Fournois de Cardinalite $n \geq 10$, by Lopez and Rauzy, 1989.
- (39) La Reconstructibilite des Relations Binaires, by Ille, 1989.
- (40) The Assignable Subgraph Polytope of a Directed Graph, by Balas, 1989.
- (41) Characterization of n th Line Digraphs, by Hemminger, 1990.
- (42) Ringing the Changes, by White, 1990.
- (43) Pairs of Edge Disjoint Hamiltonian Circuits in 5-connected Planar Graphs, by Rosenfeld, 1990.
- (44) Four Sufficient Conditions for Hamiltonian Graphs, by Ainouche, 1992.
- (45) Characterization of the Caterpillars Obtained from a Unique Animal, by Brigham et al, 1992.
- (46) Some Cyclic Properties in Bipartite Digraphs with a Given Number of Arcs, by Manoussakis and Manoussakis, 1992.
- (47) Abelian 3-DCI Groups of Even Order, by Fang, 1993.
- (48) On Cyclic Tournaments, by Ito, 1993.
- (49) Finite Undirected Graphs Which Are Not Reconstructible From Their Large Cardinality Subgraphs, by Nydal, 1993.

- (50) Endomorphisms of Undirected Modifications of Directed Graphs, by Trnková, 1993.
- (51) Is There Life on Finite Upper Half Planes?, by Celniker et al, 1994.
- (52) Random Cayley Graphs and Expanders, by Alon and Roichman, 1994.
- (53) A Common Generalization of Line Graphs and Clique Graphs, by Prisner, 1994.
- (54) On the Decomposition of Cayley Color Graphs into Isomorphic Oriented Trees, by Fink, 1995.
- (55) Generalized Primitive Exponents with the Complete Characterizations of the Extreme Diraphs, by Shao et al, 1995
- (56) Vertex Set Contained in Longest Dominating Cycles in Graphs, by Hoa, 1996.
- (57) Neighborhood Unions and Hamiltonicity of Graphs, by Shen and Tian 1996.
- (58) Isomorphisms and Classification of Cayley Graphs of Small Valencies on Finite Abelian Groups, by Li, 1996.
- (59) TMC Tetrahedral Types MOD $2k+1$ and Their Structure Graphs, by Dejter, 1997.
- (60) Graph Dynamics, by Prisner, 1997.
- (61) Line Graphs and Generalizations - A Survey, by Prisner, 1997.
- (62) The Basis Number of the Composition of Graphs, by Hailat et al, 1997.
- (63) Cycles and Paths in Triangle Free Graphs, by Brandt, 1997.
- (64) Intersections of Longest Cycles in Grid Graphs, by Menke et al, 1998.
- (65) On Quasi-Cayley Graphs, by Gauyacq, 1998.

- (66) Digraphs on Permutations, by Brunat et al, 1998.
- (67) On Isomorphisms of Connected Cayley Graphs, by Li, 1998.
- (68) A Note on Constructing Large Cayley Graphs of Given Degree and Diameter by Voltage Assignments, by Brankovic et al, 1999.
- (69) Vertex-Disjoint Paths in Cayley Color Graphs, by Kulasinghe et al, 1999.
- (70) Cycles in the cube-Connected Cycles Graph, by Gerna et al, 1999.
- (71) A Remark on Almost Moore Digraphs of Degree Three, by Baskoro et al, 1999.
- (72) On Isomorphisms of Connected Cayley Graphs, II, by Li, 1999.
- (73) On Isomorphisms of Connected Cayley Graphs, III, by Li, 1999.
- (74) Large Generalized Cycles, by Gomez et al, 1999.
- (75) On Non-hamiltonian Circulant Digraphs of Outdegree Three, by Locke and Witte, 1999.
- (76) Directed Cycles with Chords, by Marcus, 2000.
- (77) Isomorphic Cayley graphs on Nonisomorphic Groups, by Morris, 2000.
- (78) Bipartite Graphs Containing Every Possible Pair of Cycles, by Wang, 2000.
- (79) The 10 – cycle C_{10} is light in the family of all plane triangulations with minimum degree 5, by Madaras et al, 2000.
- (80) Vertex-disjoint cycles containing specified edges, by Egawa et al, 2001.
- (81) Homogeneous Cayley objects, by Cameron, 2001.
- (82) Line graphs and forbidden induced subgraphs, by Lai et al, to 2002.
- (83) Cluster of cycles, by Deza and Shtogrin, 2002.

- (84) Recognizing hinge-free line graphs and total graphs, by Chang and Ho, 2002.
- (85) Essential independent sets and long cycles,, by Hirohata, 2003.
- (86) Isomorphisms and traversibility of directed path graphs, by Broersma and Li, 2004.
- (87) Chords of longest circuits in 3-connected graphs, by Li and Zhang, 2004.
- (88) On automorphisms of Cayley digraphs of abelian groups, by Kovacs, 2004.
- (89) Short cycles in digraphs with local average outdegree at least two, by Shen, 2004.
- (90) Hamiltonian paths in Cartesian powers of directed cycles, by Austin et al, 2005.
- (91) Automorphism groups of k -arc transitive covers, by Mansilla and Serra, 2005.
- (92) Long cycles in triangle free graphs with prescribed independence number and connectivity, by Enomoto et al, 2005.
- (93) On the number of cycles in generalized Kautz digraphs, by Hasunuma et al, 2005.
- (94) Cycles in two connected graphs, by Fan et al, 2005.
- (95) Random Cayley graphs are expanders: a simple proof of the Alon-Roichman theorem, by Landau and Russell, 2005.
- (96) Variations of pancyclic graphs, by Faudree et al, 2005.
- (97) Eulerian subgraphs and Hamilton-connected line graphs, by Li et al, 2005.
- (98) Indices of convergence on four digraph operators, by Yan and Zhang, 2005.

- (99) Arc reversal in nonhamiltonian circulant oriented graphs, by by Jirasek, 2005.
- (100) Hamiltonian circuits in sparse circulant digraphs, by Bogdanowicz, 2005.
- (101) DeBruijn digraphs and affine transformations, by Deng and Wu, 2006.
- (102) Longest induced cycles in circulant graphs, by Fuchs, 2006.
- (103) Isomorphism between Cayley (di) graphs, by Fernandes and Guidici, 2006.
- (104) A fan-type condition for cyclability, by Zhang and Chen, 2006.
- (105) Finding cheapest cycles in vertex-weighted quasi-transitive and extended semicomplete digraphs, by Bang-Jensen et al, 2006.
- (106) Hamiltonicity of digraphs for universal cycles of permutations, by Issak, 2007.
- (107) Vertex-disjoint short cycles containing specified edges in a graph, by Matsumura, 2007.
- (108) Minimal Eulerian circuit in a labeled digraph, by Moreno and Matamala. 2007.
- (109) On commutativity of two unary digraph operations: subdividing and line-digraphing, by Zhang and Chen, 2007.
- (110) Almost symmetric cycles in large digraphs, Adamus and Wojda, 2007.
- (111) Heuristic search for Hamilton cycles in cubic graphs, by Alevs et al, 2007.
- (112) An improved degree based condition for Hamiltonian cycles, by Mehedy et al, 2007.
- (113) On stabilizers of some moieties of the random tournament, by Jaligot, 2008.
- (114) The number of n-cycles in a graph, by Cash, 2008.

- (115) No-hole 2-distant colorings for Cayley graphs on finitely generated abelian groups, by Chang et al, 2008.
- (116) Queue layouts of iterated line directed graphs, by Hasunuma, 2008.
- (117) On the reversing number of powers of directed Hamiltonian paths, by Narayan, 2008.
- (118) Some problems related to Hamiltonian line graphs, by Lai and Shao, 2008.
- (119) Expansion properties of random Cayley graphs and vertex transitive graphs via matrix martingales, by Christofides and Markstrom, 2008.
- (120) On iterated image size for point-symmetric relations, by Hamidoune, 2008.
- (121) Cycles passing through $k+1$ vertices in k -connected graphs, by Fujisawa and Yamashita, 2009.
- (122) Orienting Cayley graphs generated by transposition trees, by Cheng et al, 2009.
- (123) Les tournois $\leq k$ -demi-reconstructibles pour $k \leq 6$, by Boudabbous, et al, 2009.
- (124) A traceability conjecture for oriented graphs, by Frick, et al, 2009.

iii) Presentations

<u>Talk Titles</u>	<u>Association</u>	<u>Year</u>
(1) Forbidden Subgraphs	Fourth Southeastern Conference on Combinatorics, Graph Theory, and Computing	1973
(2) Some Topics in Graph Theory	Mathematics Colloquium W.C.U.	1974
(3) Line Dipseudographs	Sixth Southeastern Conference	1975

	of Combinatorics, Graph Theory, and Computing	
(4) Transversals--An Application to Latin Squares and a Theorem of Konig	Mathematics Colloquium W.C.U.	1975
(5) Survey of Ideas in Graph Theory	N.C. Council of Teachers of Mathematics (Asheville)	1975
(6) Graphs and Groups	Mathematics Colloquium W.C.U.	1976
(7) Hamiltonian Cycles in Cayley Color Graphs	American Mathematical Society (Columbia)	1976
(8) Three Problems Connected Line Graphs and Line Digraphs	Mathematics Colloquium W.C.U.	1977
(9) Hamiltonian Cycles in Cayley Color Graphs of Semidirect Products	Ninth Southeastern Conference on Combinatorics, Graph Theory, and Computing	1978
(10) Some Concepts From the Theory of Graphs	Mathematics Colloquium North Carolina A & T University	1978
(11) Hamiltonian Cycles in Cayley Color Graphs	Mathematics Colloquium W.C.U.	1979
(12) Hamiltonian Groups and Cayley Color Graphs	Mathematics Colloquium W.C.U.	1980
(13) Hamiltonian Groups are Color-Graph-Hamiltonian	Eleventh Southeastern Conference on Combinatorics, Graph Theory and Computing	1980
(14) Coding	N.C. Council of Teachers of Mathematics	1981

(15)	From Vertex Transitive Graphs to the Symmetric Groups	Mathematics Colloquium W.C.U.	1981
(16)	The Pigeon Hole Principle	N.C. Council of Teachers of Mathematics	1981
(17)	Hamiltonian Cycles in Cayley Color Graphs	Sigma Xi Club - W.C.U.	1981
(18)	Jogging Trails	N.C. Council of Teachers of Mathematics	1982
(19)	On Jogging Trails	Mathematics Colloquium W.C.U.	1982
(20)	On the Reverse of a Hamiltonian Cycle	Mathematical Association of America (Southeastern Section)	1982
(21)	A Brief Encounter of Zeros and Ones	Mathematics Colloquium UNC-Asheville	1983
(22)	Graphs and Groups	Mathematics Colloquium UNC - Wilmington	1983
(23)	Hamiltonian Cycles in Cayley Graphs--A Survey	Mathematical Association of America (Southeastern Section)	1983
(24)	On the Reverse of a Permutation	Fourteenth Southeastern Conference on Combinatorics, Graph Theory, and Computing.	1983
(25)	Inclusion - Exclusion and Rook Polynomials	Mathematics League: N.C. School Science and Math	1984
(26)	Survey of Graph Theory	Mathematics Colloquium North Carolina A & T University	1984
(27)	Some One-to-One Functions That Really	Mathematics Colloquium W.C.U.	1985

	Count		
(28)	On the Number of Honest Permutations	Mathematical Association of America (Southeastern Section)	1985
(29)	Inclusion and Exclusion	N.C. Council of Teachers of Mathematics	1985
(30)	Some Combinatorial Identities from N Dice	N.C. Council of Teachers of Mathematics	1986
(31)	On N Dice	Mathematics Colloquium W.C.U.	1986
(32)	Minimal Spanning Trees to NP Completeness	Sigma Xi Club W.C.U.	1987
(33)	Combinatorial Identities	Mathematics Colloquium Furman University	1987
(34)	Inclusion - Exclusion and Rook Polynomials	Mathematics Contest Furman University	1987
(35)	On the Probability that k Divides the Sum of N Dice	Mathematical Association of America (Southeastern Section)	1987
(36)	Transition from Bubble Sort to Shell Sort	ACM SIGCSE	1988
(37)	Some Functions that Count	N.C. Council of Teachers of Mathematics	1988
(38)	Dice, Induction and Recursion	Mathematics Colloquium W.C.U.	1989
(39)	An Algorithm for an Upper Bound for the Chromatic Number of a Graph(with E. Carr)	Mathematical Association of America (Southeastern Section)	1989

(40) Self Organizing Files and the Fibonacci Sequence	N.C. Council of Teachers of Mathematics	1989
(41) Hamiltonian Cycles in $C_n \times_2 C_m$	Mathematics Colloquium W.C.U.	1990
(42) Hamiltonian Cycles in $C_n \times_2 C_m$	Twenty-first Southeastern Conference on Combinatorics, Graph Theory and Computing	1990
(43) On a Simple Counting Problem	Mathematical Association of America (Southeastern Section)	1990
(44) Counting with 1-1 Functions	Mathematics Colloquium UNC-Asheville	1990
(45) Counting Problems with Partitions	Mathematics Colloquium Gardner-Webb College	1990
(46) Hamiltonian Cycles in $C_n \times_s C_m$	Twenty-second Southeastern Conference on Combinatorics, Graph Theory and Computing	1991
(47) Polygonal Numbers and Partitions	N.C. Council of Teachers of Mathematics	1991
(48) On Convex Hulls	N.C. Council of Teachers of Mathematics	1991
(49) Lines	Mathematics Colloquium W.C.U.	1991
(50) Hamiltonian Cycles in $C_n \times_s C_m$	Mathematical Association of America (Southeastern Section)	1992

(51) What a Computer Cannot Do: NP - Completeness	Highlands Lecture Series	1992
(52) System of Non-linear Equations and the Fibonacci Sequence	N.C. Council of Teachers of Mathematics	1992
(53) Two Monthly Problems	Mathematics Colloquium W.C.U.	1992
(54) On Hamiltonian Cycles in $C_n \times C_m$	Twenty-fourth Southeastern Conference on Combinatorics, Graph Theory and Computing	1993
(55) Monthly Problem and the Fibonacci Sequence	Mathematical Association of America (Southeastern Section)	1993
(56) When $n+1 = n$, Finite and Infinite	Highlands Lecture Series	1993
(57) On the Generalization of a Monthly Problem	Mathematics Colloquium W.C.U.	1993
(58) On Hamiltonian Cycles in $C_n \times C_m$	Twenty-fifth Southeastern Conference on Combinatorics, Graph Theory and Computing	1994
(59) On Bar Codes and Zip Codes	N.C. Council of Teachers of Mathematics	1994
(60) On Hamiltonian Cycles in $C_n \times C_m$	Twenty-sixth Southeastern Conference on Combinatorics, Graph Theory and Computing	1995
(61) Using a Graphics Calculator to Solve	N.C. Council of Teachers of Mathematics	1995

an Algebraic Problem

(62)	On the Generalization of a Math Counts Problem	N.C. Council of Teachers of Mathematics	1995
(63)	Three Problems on the Integer N	Mathematics Colloquium W.C.U.	1996
(64)	On Hamiltonian Cycles in $C_n \times C_m$	Twenty-seventh Southeastern Conference on Combinatorics, Graph Theory and Computing	1996
(65)	Some Problems from the Web and Other Sources	N.C. Council of Teachers of Mathematics	1996
(67)	Perfect Shuffles	N.C. Council of Teachers of Mathematics	1997
(68)	On the Number of Finishes in a Horse Race, Ties Allowed	Mathematical Association of America (Southeastern Section)	1998
(69)	Hi Yo (Stirling) Silver	Mathematics Colloquium W.C.U.	1998
(70)	Tricky Dice: How to Win (or Lose)	N.C. Council of Teachers of Mathematics	1998
(71)	More Weird Dice	N.C. Council of Teachers of Mathematics	1999
(72)	Hamiltonian Cycles in $C_n \times_{2,2} C_m$	Graph theory and Combinatorics Mini-Conference (UNC-G)	2000
(73)	Gateways in Calculus	Joint NCMATYC and SOCAMATYC Conference	2001
(74)	More Gateways in Calculus	N.C. Council of Teachers of Mathematics	2001

(75) On the Digraph $P(n,k)$	Thirty Third Southeastern Conference on Combinatorics, Graph Theory and Computing	2002
(76) More on Gateways in Calculus	Carolinas Conference	2002
(77) Summer Ventures Projects	N.C. Council of Teachers of Mathematics	2003
(78) Summer Ventures Projects	National Council of Teachers of Mathematics (regional)	2003
(80) Hamiltonian Cycles in $C_n X C_m$ -RTk	Thirty Fifth Southeastern Conference on Combinatorics, Graph Theory and Computing	2004
(81) What if Pascal visited a race track and met the Easter bunny?	Mathematics Colloquium W.C.U.	2004
(82) Summer Ventures Projects (moderator for student talks)	N.C. Council of Teachers of Mathematics	2004
(83) Hamiltonian Cycles in $C_n X C_m$ -Sk	Thirty Sixth Southeastern Conference on Combinatorics, Graph Theory and Computing	2005
(84) Summer Ventures Projects (moderator for student talks)	N.C. Council of Teachers of Mathematics	2005
(83) More On Hamiltonian Cycles in $C_n X C_m$ -Sk	Thirty Seventh Southeastern Conference on Combinatorics, Graph Theory and Computing	2006
(84) Summer Ventures Projects (moderator for student talks)	N.C. Council of Teachers of Mathematics	2006
(85) Sufficient Conditions for Hamiltonian Cycles	Thirty Eighth Southeastern Conference on Combinatorics,	2007

	in CnXCm -Sk	Graph Theory and Computing	
(86)	Summer Ventures Projects (moderator for student talks)	N.C. Council of Teachers of Mathematics	2007
(87)	Hamiltonian Cycles in CnXCm after a single push.	Thirty Ninth Southeastern Conference on Combinatorics, Graph Theory and Computing	2008
(88)	Summer Ventures Projects (moderator for student talks)	N.C. Council of Teachers of Mathematics	2008
(89)	Three Problems with a Number Sense	N.C. Council of Teachers of Mathematics, Western Region	2009

Other Professional Activities

- (1) Co-recipient of W.C.U. faculty research grant. 1976.
- (2) Wrote Proposal, "Reverses of Hamiltonian Cycles in a Scheduling Problem" to Sigma Xi. Funded. 1984.
- (3) WCU Summer Research Grant, 1995.
- (4) External reviewer for ETSU mathematics program.
- (5) Invited to serve as paper reviewer for Mathematical Reviews.
- (6) Invited to serve as peer-reviewer for EDC/UMAP.
- (7) Invited to review proposals for the Mathematics Directorate of the Air Force Office of Scientific Research
- (8) Invited to serve as AP Computer Science Reader.
- (9). Invited to serve as AP Computer Science Question Leader.
- (10) Invited to serve as paper referee for the SIGCSE Technical Symposium.
- (11) Invited to serve as paper referee for Journal of Graph Theory

(12) Invited to serve as paper referee for College Mathematics Journal.

(13) Invited to serve as paper referee for the journal, Computers & Mathematics with Applications.

(14) Invited to serve as paper referee for American Mathematical Monthly.

(15) Invited to serve as a paper referee for the journal Applied Mathematics Letters.

(16) Invited to serve as paper referee for the journal Discrete Mathematics.

(17) Invited to serve as paper referee for the journal Graphs and Combinatorics.

(18) Invited to serve as paper referee for the journal Quaestiones Mathematicae.

(19) Invited to serve as paper referee for the journal European Journal of Combinatorics.

(20) Invited to serve as paper referee for the journal NETWORKS.

Member of: North Carolina Council of Teachers of Mathematics

Fellow of: The Institute of Combinatorics and its Applications

Other Information

Courses taught at Western Carolina University and/or Vanderbilt University:

Survey of Mathematical Concepts; Mathematical Analysis for Business Decisions; College Algebra; Introductory Calculus; Elementary Functions; Trigonometry; Remedial Algebra; Calculus I, II, III; Linear Algebra I, II; Modern Algebra I, II; Advanced Calculus I, II; Graph Theory; Discrete Structures;

Number Theory; Matrix Theory; BASIC; Pascal; C++; Data Structures; Algorithms; Coding Theory; A.P. Computer Science for High School Teachers; Applied Algebra; Julia Sets; Survey of Algebra; Mathematics for Elementary School Teachers; Cryptography; Capstone; Freshman Seminar: Mathematics in Social Choice and Decision Making.

Committee Assignments at Western Carolina University:

Departmental

Recruitment, Non-Majors, Curriculum, Math Contest, Math Club, Faculty Review, Remedial Algebra, Computer Science, Colloquium, Graduate, Search Committee, Steering, Contest and Awards, Tenure Promotion Reappointment, Annual Faculty Evaluation, Post Tenure Review.

College

Election, Tenure and Promotion, Micronet Advisory, Dean's Advisory, Search Committee Chemistry, Search Committee Physics, Philosophy TPR, Instructional Policy Committee, Development, Honors and Awards, Political Science TPR, Strategic Planning, Conditions of Faculty Employment.

University

Athletic, Graduate Council, Traffic & Security, Computer Center Advisory, Teaching Award, Instruction and Curriculum, Micro-Computer Advisory, Faculty Affairs, CONECC, Faculty and Staff Benefits, TPR, Board of Governors Teaching Award, Collegial Review Council, Scholarly Development Assignment, Hearing Committee.

Administrative Experience

- (1) Project Director for NSF grant, 1/89-6/91
- (2) Acting Department Head, 1/89-7/90.
- (3) Department Head, 7/90 - 7/96.
- (4) Associate Department Head, 7/02 - 5/08.
- (5) WCU Director of Summer Ventures in Science and Mathematics, 11/04 - 11/08.