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Curriculum Vitae
Professor Richard A. Brualdi

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PERSONAL DATA

Born: September 2, 1939 at Derby, Connecticut
Citizenship: USA
Home Address: 2110 Chadbourne Ave.
Madison, WI 53705
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EDUCATION

Ph.D. Syracuse University 1964
M.S. Syracuse University 1962
B.S. University of Connecticut 1960

AREA OF SPECIALIZATION

Combinatorics, Graph Theory, Linear Algebra and Matrix Theory, Coding Theory

EMPLOYMENT

Academic Positions

UWF Beckwith Bascom Professor of Mathematics	2004-
University of Wisconsin, Chair	1993-1999
University of Wisconsin, Professor of Mathematics	1971-
University of Wisconsin, Associate Professor	1968-1971
University of Wisconsin, Assistant Professor	1965-1968
National Academy of Science-National Research Council, Postdoctoral Fellow at National Bureau of Standards	1964-1965

Visiting Positions

IMA, University of Minnesota	September 1991-June 1992
University of Illinois at Chicago	January-June 1987
California Institute of Technology	January-June, 1986
Université de Paris VI, Visiting Research Scholar	October 1976-July 1977
Hungarian Academy of Science, National Academy of Science Exchange Scholar	January-June 1974
University of Sheffield, England, NATO Postdoctoral Fellow	1969-1970

AWARDS, HONORS

NATO Postdoctoral Fellow
National Academy of Sciences Exchange Scholar
Chancellor's Award for Excellence in Teaching
Euler Medal (2000) for "a lifetime career of distinguished contributions to combinatorial research
by a member of The Institute of Combinatorics and its Applications (ICA) International Linear Algebra

INVITED ADDRESSES

Conference of Combinatorial Theory at Oxford, 1969, and Brest, France, May
1970
International Conference on Combinatorial Theories, Rome, September 1973
Conference on "Discrete Geometry" in Salzburg, Austria, 1975
Series of eight invited lectures at Université de Paris, 1976-1977
Lecture at Conference in honor of W. T. Tutte, Cambridge University, England,
May 1977
Canada-France Combinatorics Conference, June 1979
Special Combinatoric Session, AMS meeting, Duluth, August 1979
Conference on Matrix Theory, Auburn University, March, 1980
IBM, T. J. Watson Research Center, Yorktown, Heights, New York, 1981
Waterloo Silver Jubilee Conference on Graph Theory, June, 1982
Junior Science, Engineering and Humanities Symposium, Univ. of Wisconsin,
1982
Wisconsin MAA Discrete Math Meeting, October, 1983
Combinatorial Matrix Theory Workshop, Canada, June 2-8, 1984
Gatlinburg IX, Numerical Linear Algebra Meeting, Waterloo, Canada, July
9-14, 1984
John Hopkins Mathematical Sciences Lecture Series, June 17-21, 1985
Workshop on Sign-pattern Analysis of Linear and Nonlinear Systems, Montreal,
Sept. 3-6, 1986
Utah State Matrix Theory Conference, January 29-31, 1987
Distinguished Visitor Program (4 lectures), Emory University, March 23-27,
1987
Combinatorics and Complexity Conference, University of Illinois at Chicago,
June 15-19, 1987

Special Session on Modern Trends in Matrix Theory, AMS meeting, Atlanta, January 1988

Minisymposium on Combinatorial Matrix Analysis, SIAM Appl. Linear Algebra Conf., Madison, May 1988

Coding Theory Workshop, Inst. of Mathematics and its Applications, Univ. of Minnesota, June 20-24, 1988

Algebraic Combinatorics Conference, Kyoto, Japan, June 30 - July 2, 1988

American Mathematical Society Short Course on Matrix Theory, Phoenix, January 1989

West Virginia Visiting Mathematicians Program, March 20-24, 1989

Conference on Linear Algebra and Applications Northern Illinois University, April 29-30, 1989

Inaugural Conf. of International Linear Algebra Society, Brigham Young University, August 11-15, 1989

Directions in Matrix Theory, Auburn University, March 1990

5th Las Cruces Symposium on Graph Theory, New Mexico State University, March 1990

Multilinear Algebra Workshop, University of Lisbon (Portugal), April 1990

Sixth Haifa Matrix Conference, Technion (Israel), June 1990

Cissy Patterson Lecturer, College of William and Mary, November 1990

22nd Southeastern Conference on Combinatorics, Graph Theory and Computing, Baton Rouge, February 1991

6th International Las Cruces Symp. on graph theoretic models in Comp. Science, Las Cruces, March 1991

Workshop on Applications of Combinatorial Optimization in Science and Tech., Rutgers Univ., New Brunswick, April 1991

1st Estonian Conference on Graph Theory, Tartu, Estonia, May 1991

2nd NIU Conference on Linear Algebra, Numerical Linear Algebra and Applications, DeKalb, May 1991

2nd TGRC International Workshop, Kyungpook National University, Taegu, Korea, July 1991 (also lectures at Seoul National University and Cheju National University)

Symposium on Matrix Analysis and Applications, Western Michigan University, Kalamazoo, October 1991

Colloquium - University of Minnesota, October 1991

Colloquium - Miami University (Ohio), February 1992

Colloquium - University of Wisconsin - River Falls, February 1992

Colloquium and seminar talk - University of New Mexico, March 1992

NSF Summer Course in "Topics in Combinatorics", University of Wyoming, July 6-17, 1992 (10-1 1/4 hour lectures)

Workshop on Matrix Theory, Bielefeld, Germany, July 1992

Workshop on Computational Linear Alg. in Alg. and Related Problems, Essen, Germany, July-August 1992

2nd ILAS Conference on Linear Algebra, Lisbon, Portugal, August 1992

22nd Manitoba Conference on Numerical Maths. and Computing, Winnipeg, October 1992

7th Clemson Conference in Discrete Maths, Clemson, S.C., October 1992

Seminar - McGill University, Montreal, November 1992

Colloquium - University of Tokyo, December 1992

Colloquium and Seminar - Research Inst. for Electronic Science, Hokkaido Univ. (Sapparo, Japan), Dec. 1992

AMS-MAA invited hour lecture, Annual meeting in San Antonio, January 1993

3rd ILAS Conference on Linear Algebra, March 1993 (gave report on IMA year 1991-92)

Colloquium - University of Guelph (visiting Professor for one week), March 1993

Annual meeting of Wisconsin MAA, Menasha, April 1993

Matrices and Graphs Conference, University of Colorado, May 1993

Workshop on Nonnegative Matrices, Technion (Haifa), May 1993

8th Haifa Matrix Theory Conference, Technion (Haifa), June 1993

Colloquium and Seminar - University of Lisbon, July 1993

Colloquium and Seminar - Coimbra University, July 1993

Algebraic Graph Theory Workshop, Edinburgh, July 1993

Workshop and Conference on Discrete Math, Chiang-Mai, Thailand, October 1993

4th ILAS Conference, Rotterdam, Netherlands, August 1994

Seminar - Los Alamos National Labs, Los Alamos, New Mexico, July 1994

Linear and Multilinear Algebra Workshop, Lisbon, Portugal, January 1995

Linear Algebra and Its Applications Conference, Manchester, England, July 1995

Matrix Theory Mini-Conference, Hong Kong, June 1995

Western Michigan Symposium on Matrix Analysis, Kalamazoo, October 1995

Rose-Hulman Undergraduate Math Conference (principal speaker), (two 1-hour lectures), March 1996

Prague Mathematical Conference, July 1996

Gentry Lectures, Wake Forest University, July 1997

SIAM Conference on Applied Linear Algebra, Snowbird, Utah, October 1997

Seminar, University of Lisbon, April 1999

Seminar, University of Lisbon, June 2000

Discrete Tomography Workshop, Siena, Italy, October 2000 (had to cancel because of a medical problem)

Oberwolfach Meeting on Nonnegative Matrices, November 2000 (had to cancel because of a medical problem)

Colloquium, Purdue University, October 2002 (and Indiana Section of MAA)

International Conference on Combinatorial Matrix Theory, POSTECH, Pohang, Korea, January 14-17, 2002

International Conference of Combinatorics, Shanghai, China, May 30 - June 3, 2002.

Tenth ILAS conference, Auburn University, June 2002

Series of Lectures at a special summer course at the University of Regina (Canada), August 2002.

Current Trends in Mathematics and Applications, A conference at the IMA (Minnesota). November 8-10, 2002.

International Workshop on Max-Algebra, Birmingham, England, June 2003.

International Workshop on Combinatorics, Linear Algebra, and Graph Colorings, IPM, Tehran (Iran), August, 2003.

COMCAC (Annual Meeting of Northern Chilean Universities), Antofagasta (Chile), August 2003 [plenary lecture plus a 3 lecture short course].

Pi Mu Epsilon Meeting, November 2003, St. Norbert's College, Ripon, WI [two lectures].

Speaker at the special session on matrix theory at the first joint meeting of the American Math Society and Indian Mathematicians, December 2003, Bangalore, India.

SIAM Workshop on Combinatorial Scientific Computing, February 2004, San Francisco.

Thirty-fifth Southeastern International Conference on Combinatorics, Graph Theory, and Computing, March 2004, Florida Atlantic University, 2 plenary lectures Boca Raton.

Colloquium, University of Lethbridge, May 2004, Lethbridge, Canada.

National University of Ireland Workshop on Nonnegative Matrices. July, 2004, plenary lecture, Maynooth. item Aveiro Workshop on Graph Spectra (Aveiro, Portugal), 2006 Ireland.

OTHER SCIENTIFIC ACTIVITIES

Wisconsin MAA Contest Committee, 1965-1969, Chairman of the Test Contest Committee, 1968-1969

Participating Scholar in "Erdős in Residence Week" at New York Academy of Science, NY, Nov. 1970

Refereeing regularly for J. Combinatorial Theory (A), J. Combinatorial Theory (B), Discrete Mathematics, Linear/Multilinear Alg., Amer. Math Monthly, European J. Combinatorics, SIAM J. on Alg/Disc. Math.

Regular Reviewing for (Math Reviews), NSF, NSA and NRC (Canada)

Organizing Committee of AMS Summer Conf.: Linear Algebra and Its Role in Systems Theory, July 1984

Organizing Co-chairman of SIAM 2nd Conference on Applied Linear Algebra, April 29-May 2, 1985

Organizing Committee of SIAM Conf. on Linear Alg. in Signals, Systems and Control Theory, August 1986

Organizing Co-chairman of SIAM 3rd Conference on Applied Linear Algebra, May, 1988

Secretary of SIAM activity group on Linear Algebra, 1986-1988: Editor of its Newsletter

Member of the Executive Committee of the International Matrix Group (IMG), 1987-

Board of Governors, Institute of Mathematics and its Applications at University of Minnesota, 1988-1991

Invited lecturer, Rocky Mountain Math. Consortium, Summer School, Univ. of Wyoming, July-Aug. 1988

Organizing Chairman of the SIAM 4th Conference on Applied Linear Algebra, September 1991.

Organizing Committee (acting as chairman) of the special year (1991-1992) on Applied Linear Algebra at the Institute for Mathematics and Applications, Minneapolis

NSF Workshop on the Linear Algebra Curriculum, College of William and Mary, August 1990

Chosen to present the report on a first course in linear algebra at the AMS annual meeting, San Francisco, January, 1991

Member of Committee reviewing the Dept. of Mathematical Sciences of the Univ. of Delaware, Sept., 1990

Organizing Committee of ILAS Conference on Linear Alg., Univ. of West Florida, Pensacola, March 1993

Organizing Committee of the 5th SIAM Conference on Applied Linear Algebra, June 1994

ILAS Board of Directors, 1994-1996

External Assessor, Department of Math., University of Malaysia, 1993-

Organizing Committee, SIAM Applied Linear Algebra Conference, 1997

Organizing Committee, AMS/SIAM Summer Workshop on Continuous Approaches to Discrete Optimization Problems, June 1997

Chair of Organizing Committee of ILAS Conference on Linear Algebra, Madison, June 1998

President, International Linear Algebra Society, 1996-1999 and 1999-2002

Scientific Council of the Centro Internacional de Matematica (Portugal), 1999-Board of Trustees, Math Research Institute-Berkeley, 1999-2002

Organizing Committee, Haifa Matrix Theory Conference, June 2001

Organizing Committee and Chair of Local Arrangements Committee, MAA Mathfest, August 2001

Co-chair of Organizing Committee, Postech Conference in Combinatorial Matrix Theory, Korea, January 2002

Organizing Committee, Auburn Challenges in Matrix Theory Conference, June 2002

Organizing Committee of the International Conference of Combinatorics, Shanghai, China, May 30 - June 3, 2002

Member of Site Visit Team for the new Banff Center for Mathematical Research, June 2001

(Elected to the) Editorial Boards Committee of the American Mathematical Society (Feb., 2003 - Jan. 2007). Chair of this Committee from Feb 1, 2003 to Jna 31, 2005

Member of the MAA Committee on Graduate Students, Jan 2003- Jan 2008.

Co-organizer of a Special Session on "The many facets of linear algebra and matrix theory," First Joint Meeting of the American Math Society and Indian Mathematicans, December 2003, Bangalore, India.

Founding member of the Advisory Board of the "International Institute of Mathematics" in India.

Co-organizer of the ILAS Conference in Shanghai in 2007

RECENT UNIVERSITY SERVICE (since 1994)

Campus Undergraduate Education Committee (3 years)

L&S Curriculum Committee (5 years, chair for 3 years)

L&S Equity Action Committee (3 years)

L&S General Education Committee, QR-liaison (5 years and still continuing)

L&S MAPS Faculty Advisory Board (4 years, co-chair for 2 years)

Chair of Campus Committee for Implementation of the Quantitative Reasoning Committee (2 years); remain as QR-liaison for the General Education Committee

Subcommittee of the Access and Accomodation in Instruction Committee to develop procedures for General Education appeals (1 year)

Chair of the Search Committee for a new L&S Associate Dean for Student Academic Affairs (1998-99)

Chair of the Campus Freshman Seminars Committee (developed a proposal that was included in the 2001-03 university budget request) (2000-01)

Chair of a Committee to encourage the development of First-year Student Interest Groups (FIGS), 2001-02; Co-Chair 2002- present

(Elected to the) L&S Academic Planning Council, 2003-2006.

(Elected to the) Faculty Commission on Compensation and Economic Benefits, 2004-07.

Mentor in the Chancellor's Scholars Program (2001-)

EDITORIAL BOARDS

Associate Editor, The American Mathematical Monthly, 1975-1978

Editor of the "Mathematical Notes" and "Classroom Notes"

section of the "American Mathematical Monthly", 1975-1978

Associate Editor of Linear Algebra and Its Applications, 1972-1978

Associate Editor of "Delta", 1973-1976

Co-editor-in-Chief of the journal Linear Algebra and Its Applications, 1979-

Associate Editor, Letters in Linear Algebra, 1980-1982

Editorial Board, Linear and Multilinear Algebra, 1988-1993

Editorial Board, Discrete Mathematics, 1988-

Editorial Board, Linear and Multilinear Algebra, 1988-1993

Editorial Board, Acta Applicandae Mathematica, 1982-92

Editorial Board, Mathematical and Computer Modelling, 1992-

Editorial Board, The SIAM Classic Series, 1993-

Editorial Board, SIAM Journal on Matrix Analysis, 1990-2001.

Editorial Board, Electronic J. of Combinatorics, 1994-

Editorial Board, Kyungpook Mathematical Journal, 1994-2006

Editorial Board, Electronic J. of Linear Algebra, 1999-2004

Editorial Board, Mathematical Inequalities & Applications, 2000-

Editorial Board, J. of Information & Optimization Sciences, 2000-2009

Co-editor-in-chief of the Electronic Journal of Combinatorics, 2001-

Guest editor for the special issue of Discrete Mathematics devoted to the IPM Workshop held in Tehran in the summer of 2003.

RESEARCH GRANTS

National Science Foundation	1966-1999
Office of Naval Research	1985-1986
National Security Agency	1989-1991
National Science Foundation VIGRE Grant	1999-2004

PUBLICATIONS

1. Term rank of the direct product of matrices. *Canadian J. Math* (1966), pp. 126-138.
2. A note on multipliers of difference sets. *J. Research, N. B. S.* 69B, (1965), pp. 87-89.
3. Inequalities for permanents and permanent minors (with Morris Newman). *Proc. Cambridge Philos. Soc.* 61 (1965), pp. 741-746.
4. Some theorems on the permanent (with Morris Newman). *J. Research, N. B. S.* 69B (1965), pp. 159-163.
5. Permanent of the direct product of matrices, *Pacific J. Math.* 16 (1966), pp. 471-482.
6. Inequalities of permanent minors of non-negative matrices (with Morris Newman). *Canad. J. Math.* 18 (1966), pp. 608-615.
7. Permanent of the product of doubly stochastic matrices. *Proc. Cambridge Philos. Soc.* 62 (1966), pp. 643-648.
8. The diagonal equivalence of a non-negative matrix to a stochastic matrix (with Seymour Parter and Hans Schneider). *J. Math. Analysis and Applications* 16 (1966), pp. 31-50.
9. On the permanent and maximal characteristic root of a non-negative matrix. *Proc. Amer. Math. Soc.* 17 (1966), pp. 1413-1416.
10. Kronecker product of fully indecomposable matrices and of ultra-strong digraphs. *J. of Combinatorial Theory* 2 (1967), pp. 135-139.
11. Proof of a permanent inequality (with Morris Newman). *Oxford Quarterly J. of Math.* 17 (1966), pp. 234-238.
12. Eigenschaften der Permantefunktion (with Joel L. Brenner). *Archiv der Math.* 18 (1967), pp. 585-586.
13. Convex sets of non-negative matrices. *Canad. J. of Math.* 29 (1968), pp. 144-157.
14. A spectral characterization of stochastic matrices (with Helmut Wielandt). *Linear Algebra and Its Applications* 1 (1968), pp. 65-71.
15. Exchange systems, matchings, and transversals (with E. B. Scrimger). *J. of Combinatorial Theory* 5 (1968), pp. 244-257.
16. An extension of Banach's mapping theorem. *Proc. of the A.M.S.* 20 (1969), pp. 520-526.
17. Common transversals and strong exchange systems. *J. of Combinatorial Theory* 8 (1970), pp. 307-329.

18. A very general theorem on systems of distinct representatives. *Transactions of A.M.S.* 140 (1969), pp. 149-160.
19. Comments on bases in dependence structures. *Bull. Australian Math. Soc.* 1 (1969), pp. 161-167.
20. An enumeration problem for a congruence equation (with Morris Newman). *J. Research N.B.S.* 74B (1970), pp. 37-40.
21. Admissible mappings between dependence spaces. *Proc. London Math. Soc.* (3) 21 (1970), pp. 296-312.
22. A general theorem concerning common transversals. *Combinatorial Mathematics and Its Applications* (edited by D.J.A. Welsh). Academic Press (1971), pp. 39-60.
23. On families of finite independence structures. *Proc. London Math. Soc.* (3) 22 (1971), pp. 265-293.
24. Existence theorem for infinite integral matrices. *Mathematika* 17 (1970), pp. 91-97.
25. A general linking theorem in directed graphs (with J. S. Pym). *Studies in Pure Mathematics* (edited by L. Mirsky). Academic Press (1971), pp. 17-29.
26. Common transversals and integral matrices. *Transactions Amer. Math. Soc.* 155 (1971), pp. 475-492.
27. Strong transfinite version of König's duality theorem. *Monatshefte für Mathematik* 75 (1971), pp. 106-110.
28. Matchings in arbitrary graphs. *Proc. Cambridge Philos. Soc.* 69 (1971), pp. 401-407.
29. Induced matroids. *Proc. Amer. Math. Soc.* 29 (1971), pp. 213-221.
30. Transversal matroids and Hall's theorem (with J. H. Mason). *Pacific J. Math.* 41 (1972), pp. 601-613.
31. Menger's theorem and matroids. *J. London Math. Soc.* (2) 4 (1971), pp. 46-50.
32. Generalized transversal theory. *Theorie des Matroides* (edited by C. Bruter). Springer-Verlag, *Lecture Notes in Math.* Vol. 211 (1971), pp. 5-30.
33. Extension of partial diagonals of matrices I, II, (with Hazel Perfect). *Monatshefte für Mathematik* 75 (1971), pp. 385-397 and 76 (1972), pp. 97-108.
34. Characterizations of transversal matroids and their presentations (with G. Dinolt). *J. Combin. Theory* 12 (1972), pp. 268-286.
35. Weighted joint semi-lattices and transversal matroids. *Trans. Amer. Math. Soc.* 191 (1974), 317-328.
36. Uniqueness of an independent transversal of a family of sets. *Proc. Cambridge Philos. Soc.* 72 (1972), pp. 375-380.
37. On fundamental transversal matroids. *Proc. Amer. Math. Soc.* 4 (1974), pp. 151-156.
38. Packing boxes with harmonic bricks (with T. Foregger). *J. Combinatorial Theory* 17 (1974), pp. 81-114.

39. Some hypergraphs and packing problems associated with matrices of 0's and 1's (with T. Foregger). *J. Combinatorial Theory* 17 (1974), pp. 115-123.
40. A set intersection problem (with R. Shanny). *Linear Alg. and Its Applications* 9 (1974), pp. 143-147.
41. Networks and the Shannon Switching Game. *Delta* 4 (1975), pp. 1-23.
42. Transversal Theory and Graphs. *Studies in Graph Theory, Part I*, edited by D. R. Fulkerson. MAA (1975), pp. 23-88.
43. Erections and truncations of principal geometries (with G. W. Dinolt). *Discrete Math.* 12 (1975), pp. 113-138.
44. Matrices with constant permanent minors (with T. Foregger), *Linear and Multilinear Algebra*, 3 (1975), pp. 227-234.
45. Combinatorial properties of non-negative symmetric matrices, *Teorie Combinatoire (Roma, Accademia Nazionale der Lincei)*, (1976), pp. 99-120.
46. The DAD theorem for arbitrary row sums, *Proc. Amer. Math. Soc.* 45 (1974), pp. 189-194.
47. Matroids induced by directed graphs. *Proc. of the 2nd Czech. Graph Theory Conference (Prague, 1974)*, pp. 115-134.
48. Stochastic patterns (with J. Csima). *J. of Combinatorial Theory (A)*, (1975), pp. 1-12.
49. Extremal plane stochastic matrices of dimension three (with J. Csima). *Linear Algebra and Its Applications II* (1975), pp. 105-133.
50. On the plane term rank of a three dimensional matrix (with J. Csima). *Proc. of the Amer. Math. Soc.* 54 (1976), pp. 471-473.
51. Fibonacci sequence and extremal stochastic matrices (with J. Csima). *Fibonacci Quarterly* 15 (1977), pp. 333-336.
52. The convex polyhedron of doubly stochastic matrices: I. Applications of the Permanent Function, (with P. Gibson). *J. Combinatorial Theory (A)* 22 (1977), pp. 194-230.
53. The convex polyhedron of doubly stochastic matrices: II. The graph of (with P. Gibson). *J. Combinatorial Theory (B)* 22 (1977), pp. 175-198.
54. The convex polyhedron of doubly stochastic matrices: III. Affine and combinatorial properties of n (with P. Gibson). *J. Combinatorial Theory (A)* 22 (1977), pp. 338-351.
55. Convex polyhedra of doubly stochastic matrices: IV. (with P. Gibson). *Linear Algebra and Its Applications* 15 (1976), pp. 15-172.
56. The assignment polytope (with P. Gibson). *Mathematical Programming II* (1976), pp. 97-101.
57. The truncated assignment polytope (with Geoffrey Lee). *Linear Algebra and Its Applications* 19 (1978), pp. 33-62.
58. Convex polytopes of permutation invariant doubly stochastic matrices. *J. Combinatorial Theory (B)* 23 (1977), pp. 58-67.
59. Comments and Complements. *Amer. Math. Monthly* (1977)[Expository].

60. Introductory Combinatorics (an undergraduate text) Elsevier-North Holland (1977).
61. The chromatic index of the the graph of the assignment polytope. *Annals of Disc. Math.* 3 (1978), pp. 49-53.
62. A unified treatment of nearly reducible and nearly decomposable matrices (with M. Hedrick). *Lin. Alg. and Its Applics.* 24 (1979), pp. 51-73.
63. Matrices permutation equivalent to irreducible matrices and applications. *Lin. and Multilin. Alg.* 7 (1979), pp. 1-17.
64. The diagonal hypergraph of a matrix (bipartite graph). *Disc. Math.* 27 (1979), pp. 127-147.
65. A note on degree sequences of graphs. *Canad. Math. Bull.* 23 (1980), pp. 21-27.
66. Bigraphs versus digraphs via matrices (with F. Harary and Z. Miller). *J. Graph Theory* 4 (1980), pp. 51-73.
67. Matrices of 0's and 1's with total support. *J. Comb. Theory, (A)* 28 (1980), pp. 249-256.
68. Disjoint permutation matrices in complements of trees. *Lin. and Multilin. Alg.* 8 (1979), pp. 115-119.
69. On the exponent of a primitive, nearly reducible matrix (with J. Ross). *Math. of Oper. Res.* 5 (1980), pp. 229-241.
70. Matrices with isomorphic diagonal hypergraphs (with J. Ross). *Disc. Math.* 33 (1981), pp. 123-138.
71. On Ryser's maximum term rank formula (with J. Ross). *Lin. Alg. and Its Applications* 29 (1980), pp. 33-38.
72. On 1-factors of cubic bipartite graphs. *Ars. Combinatoria* 9 (1980) pp. 211-219.
73. An essay on permanents (with a review of Permanents by H. Minc). *Bull. A.M.S. (new series)* 1 (1979), pp. 965-973.
74. On the diagonal hypergraph of a matrix. *Annals of Disc. Math.* 8 (1980), pp. 261-264.
75. Introduction to Matching Theory, Combinatorial Geometries, (edited by N. White). Cambridge Univ. Press, 1987, 53-71.
76. Invariant sets for classes of matrices of 0's and 1's (with J. Ross). *Proc. Amer. Math. Soc.* 80 (1980), pp. 706-710.
77. On Haber's minimum term rank formula. *European J. of Combinatorics* 2 (1981), pp. 159-231.
78. Matrices of 0's and 1's with fixed row and column sum vectors. *Linear Algebra and Its Applications* 33 (1980), pp. 159-231.
79. Notes on the Birkhoff algorithm for doubly stochastic matrices. *Canad. Math Bull.* 25 (1982), pp. 191-199.
80. Hamiltonian line graphs (with R. F. Shanny). *J. Graph Theory* 5 (1981), pp. 307-314.

81. Matrices, eigenvalues and directed graphs, *Lin. and Multilin. Algebra*, 11 (1982), pp. 143-165.
82. On powers of non-negative matrices, (with M. Lewin), *Lin. Algebra and Its Applications*, 43 (1982), pp. 87-97.
83. Small diameter interchange graphs (with Li Qiao), *Lin. Algebra and Its Applications*, Special Issue on Combinatorics/Graph Theory, 46 (1982), pp. 177-194.
84. On minimal regular digraphs with girth 4 (with Li Qiao). *Czech. Math. J.* 33 (108) (1983), 439-447.
85. Linear transformations on matrices preserving properties of irreducibility and full indecomposability (with Li Qiao). *SIAM J. Alg. Disc. Methods* 4 (1983), 116-131.
86. Determinantal Identities: Gauss et al. (with H. Schneider), *Lin. Alg. Applics.* 52/53 (1983), 768-791.
87. The interchange graph of tournaments with the same score vector (with Li Qiao), *Progress in Graph Theory* (ed. by J. A. Bondy and U.S.R. Murty), Acad. Press (1987), 129-151.
88. Upsets in round robin tournaments (with Li Qiao). *J. Combinatorial Theory B*, 35 (1983), 62-77.
89. Permanent of the Laplacian matrix of trees and bipartite graphs (with J. Goldwasser), *Discrete Math* 48 (1984), 1-21.
90. Prime interchange graphs of classes of matrices of 0's and 1's (with R. Manber) *J. Combin. Theory (A)* 35 (1983), 156-170.
91. The doubly stochastic matrices of a vector majorization, *Lin. Alg. Applic.* 61 (1984), 141-154.
92. An interesting face of the polytope of doubly stochastic matrices, *Lin. Multilin. Alg.* 17 (1985), 5-18.
93. Chromatic number of classes of matrices of 0's and 1's (with R. Manber), *Discrete Math* 50 (1984), 143-152.
94. On assignment functions (with D. J. Hartfiel and S. G. Hwang), *Lin. Multilin. Alg.* 19 (1986), 203-219.
95. On the spectral radius of (0,1) - matrices (with A. J. Hoffman), *Lin. Alg. Applic.* 65 (1985), 133-140.
96. The combinatorial compound matrix (with L. Qiao), *J. of Math. Research and Exp.*(1988), 153-162.
97. On the minimum rank of regular classes of matrices of 0's and 1's (with R. Manber and J. Ross), *J. Combin. Theory A*, 41 (1986) 32-49.
98. Completion of matchings in regular bipartite graphs (with J. Csima), *Discrete Math* 62 (1986), 99-101.
99. Maximum determinants of complementary acyclic matrices of 0's and 1's (with E. Solheid). *Discrete Math* 61 (1986), 1-19.
100. On the spectral radius of complementary acyclic matrices of 0's and 1's (with E. Solheid), *SIAM J. of Alg. Disc. Methods*, 7 (1986), 265-277.

101. Combinatorial verification of the elementary divisors of tensor products, *Lin. Alg. and its Applics.* 7 (1985) 31-47.
102. *Transversal Matroids, Combinatorial Geometries* (edited by N. White), Cambridge University Press, 1987, 72-97.
103. On the minimum spectral radius of matrices of zeros and ones (with E.S. Solheid), *Linear Alg. and its Applics.* 85 (1987), 81-100.
104. The Jordan canonical form: an old proof, *Amer. Math. Monthly* 94 (1987), 257-267.
105. Classes of matrices associated with the optimal assignment problem (with H. J. Ryser), *Lin. Alg. and it Applics.* 81 (1986), 1-17.
106. On the spectral radius of connected graphs (with E. S. Solheid), *Publ. Inst. Math., Mon. Sèr.* 93 (53), (1986), 193-201.
107. On strong digraphs with a unique minimally strong subdigraph (with R. Manber), *Discrete Math.* 71 (1988), 1-7.
108. An extremal problem concerning matrices of 0's and 1's (with M. Katz), *Linear and Multilin., Alg.* 20 (1987), 325-331.
109. Some extremal problem concerning the square of a (0,1)-matrix (with E.S. Solheid), *Linear and Multilin. Alg.* 22 (1987), 57-73.
110. Maximum permanents of matrices of 0's and 1's (with J. L. Goldwasser and T. S. Michael), *J. Combinatorial Theory, Ser. A* 47 (1988), 207-245.
111. In memoriam, H. J. Ryser 1923-1985, *J. Combinatorial Theory, Ser. A* (1988), 1-5.
112. Counting permutations with restricted positions: permanents of (0,1)-matrices, in *The 1987 Utah State Matrix Theory Conference Report* (edited by L. Beasley and G. Underwood), *Linear Alg. and its Applics.* 104 (1988), 173-183.
113. Combinatorially determined elementary divisors, *Congressus Numerantium* 58 (1987), 193-216.
114. On the MacWilliams identities for linear codes (with V. Pless and J. Beissinger), *Linear Alg. and its Applic.* 107 (1988), 181-189.
115. Short codes with given covering radius (with V. Pless and R. M. Wilson), *IEEE Transactions on Information Theory*, 35 (1989), 99-109.
116. Polyadic Codes (with V. Pless), *Discrete Applied Math* 25(1989) 3-17.
117. The class of 2-multigraphs with a prescribed degree sequence (with T.S. Michael), *Linear and Multilin. Alg.* 24 (1989), 81-102.
118. Some applications of doubly stochastic matrices, *Linear Alg. and its Applic.* 107 (1988), 77-100.
119. On the covering radius of a code and its subcodes (with V. Pless), *Special issue on coding of Discrete Math*, 83 (1990), 189-199.
120. The class of matrices of zeros, ones, and twos with prescribed row and column sums (with T.S. Michael), *Linear Alg. and its Applic.* 114/115 (1989), 181-198.

121. On the length of codes with a given covering radius (with V. Pless), in "Coding Theory and Design Theory I", ed. by D. Ray Chandhuri, Springer-Verlag, (1990), 9-15.
122. Semibandwidth of bipartite graphs (with K. McDougal), *Ars Combinatoria*, 30 (1990), 275-287.
123. Matrix factorizations of determinants and permanents (with B.L. Shader), *J. Comb Theory (A)*, 54 (1990), 132-134.
124. Orphans of the first order Reed-Muller codes, (with V. Pless), *IEEE Transactions on Information Theory*, 36 (1990), 399-401.
125. A lattice generated by (0,1) - Matrices (with Liu Bolian), *Ars Combinatoria*, 31 (1991), 183-190.
126. The many facets of Combinatorial Matrix Theory, in *Proc. Symp. Pure and Applied Math. Vol. 40* (1990), 1-35.
127. Fully indecomposable exponents of primitive matrices (with Liu Bolian), *Proc. Amer. Math. Soc.*, 112 (1991), 1193-1201.
128. Hall exponents of Boolean matrices (with Liu Bolian), *Czech. Math. J.* 40 (115) (1990), 659-670.
129. Generalized exponents of primitive directed graphs (with Liu Bolian), *J. Graph Theory*, 14 (1990), 483- 499.
130. The even polytype of doubly stochastic matrices (with Liu Bolian), *J. Comb. Theory (A)* 57 (1991), 243- 253.
131. Matrices of 0's and 1's with restricted permanental minors (with B.L. Shader), *Discrete Math.* 96 (1991), 161-174.
132. Small matrices of large dimension (with J. Csima), *Linear Alg. and its Applics.*, 150 (1991), 227-241.
133. Butterfly embedding proof of a theorem of König (with J. Csima), *Amer. Math. Monthly*, 99 (1992), 228- 230.
134. Elementary divisors and ranked posets with applications to matrix compounds (with K.L. Chavey), *Linear and Multilin. Alg.*, 29 (1991), 81-90.
135. Multicolored forests in bipartite decompositions of graphs (with N. Alon and B.L. Shader), *J. Combin. Theory (B)*, 53 (1991), 143-148.
136. Orphan structure of the first order Reed-Muller codes (with N. Cai and V. Pless), *Discrete Math.*, 102 (1992), 239-247.
137. On sign-nonsingular matrices and the conversion of the permanent into the determinant (with B.L. Shader), *Applied Geometry and Discrete Mathematics - The Victor Klee Festschrift*, ed. by P. Gritzmann and B. Sturmfels, (1991), 117-134.
138. The symbiotic relationship of Combinatorics and Matrix Theory, 43 MS pages, *Linear Alg. and its Applic.*, 162-164 (1992), 65-105.
139. Weight enumerators of self-dual codes (with V. Pless), *IEEE Transactions on Information Theory*, 37 (1991), 1222-1225.
140. Cutsets in bipartite graphs (with B.L. Shader), *Linear and Multilin. Alg.*, 34 (1993), 51-54.

141. A note on vertex - and edge - connectivity (with J. Csima), *Bull. of Inst. of Combinatorics and its Applics.* 2 (1991), 67-70.
142. Graphs and Matrices and Graphs, *Congressus Numerantium*, 83 (1991), 129-145. [Expository]
143. Linear spaces of Toeplitz and nilpotent matrices (with K.L. Chavey), *J. Combin. Theory (A)*, 63 (1993), 65-78.
144. Sign - nonsingular matrix pairs (with K.L. Chavey), *SIAM J. Matrix Analysis*, 13 (1992), 36-40.
145. Generalized transitive tournaments and doubly stochastic matrices (with G.S. Hwang (Son)), *Lin. Alg. and its Applics.*, 172 (1992), 151-168.
146. Maximum and minimum jump number of posets from matrices (with H.C. Jung), *Lin. Alg. and its Applics.*, 172 (1992), 261-282.
147. Incidence and strong edge colorings of graphs (with J.J. Q. Massey), *Discrete Math.* 122 (1993), 51-58.
148. Greedy Codes (with V. Pless), *J. Combin. Theory (A)*, 64 (1993), 10-30.
149. On the poset of all posets on n elements (with H.C. Jung and W.T. Trotter, Jr.), *Disc. Appld. Math*, 50 (1994), 111-123.
150. Topics in Finite Geometry, *Proceedings of the TGRC Workshop (Kyungpook National University 1991)*, edited by J.S. Pak and C.-Y. Park, 2 (1991), 57-104. [Expository]
151. Rectangular L-matrices (with K.L. Chavey and B.L. Shader), *Linear Algebra and its Applications*, 196 (1994), 37-61.
152. Combinatorial orthogonality (with LeRoy Beasley and Bryan L. Shader), "Combinatorial and graph theoretic problems in linear algebra", edited by Richard A. Brualdi, Shmuel Friedland and Victor Klee, Springer-Verlag, 207-218, 1993.
153. Strong Hall matrices (with B.L. Shader), *SIAM J. Matrix Analysis*, 15 (1994), 359-365.
154. More on structure ranks of matrices (with Jennifer Q.Q. Massey), *Linear Algebra and its Applications*, 183 (1993), 193-199.
155. Some applications of elementary linear algebra in combinatorics (with Jennifer Q.Q. Massey), *College Mathematics Journal (special issue on the teaching of linear algebra)*, 24 (1993), 10-12. [Expository]
156. Conditional sign solvability (with Keith L. Chavey and Bryan L. Shader), *Mathematical and Computer Modelling*, 17 (1993), 141-148.
157. The sparse basis problem and multilinear algebra (with Shmuel Friedland and Alex Pothen), *SIAM J. Matrix Analysis*, 16 (1995), 1-20.
158. Minimum permanents on special faces of the polytope of doubly stochastic matrices (with Bryan L. Shader), in *Linear Algebra and its Applications*, 201 (1994), 103-111.
159. Bipartite graphs and inverse sign patterns of strong sign-nonsingular matrices (with K.L. Chavey and B.L. Shader), *J. Combinatorial Theory, Sec. B.*, 62 (1994), 133-152.

160. Sign-central matrices (with T. Ando), *Linear Algebra and its Applications*, 208/9 (1994), 283-295.
161. Regions in the complex plane containing the eigenvalues of a matrix (with S. Mellendorf), *American Mathematical Monthly*, 101 (1994), 975-985.
162. On a matrix partition conjecture (with G. Hahn, P. Horak, E. Kramer, S. Mellendorf and D. Mesner), *J. of Combinatorial Theory, Sec. A*, 69 (1994), 333-346.
163. On the quasi-transversals of a matroid (with A. Fonseca), *Discrete Math*, 146 (1995), 293-297.
164. Pseudo-interval graphs (with E. Brauner and E. Sneyd), *J. Graph Theory*, 20 (1995), 309-318.
165. Codes with a poset metric (with J. Graves and K.M. Lawrence), *Discrete Math.*, 147 (1995), 57-72.
166. Generalized exponents of primitive symmetric digraphs (with J.-Y. Shao), *Discrete Appld. Math.*, 74 (1997), 275-293.
167. Colorability of Induced matroids (with A. Fonseca), *Linear Algebra and Its Applications*, 1995, 223/224 (1995), 141-153.
168. Two extremal problems in graph theory (with S. Mellendorf), *Electronic J. Combinatorics*, 1994, Volume 1, 10 pages.
169. Matrices all of whose principal submatrices of some order have a nonzero permanent (with S.-G. Hwang), *Linear Algebra and Its Applications*, 226/228 (1995), 409-421.
170. Vector majorization via Hessenberg matrices (with S.-G. Hwang), *J. London Math. Society*, (2) 53 (1996), 28-58.
171. A retract characterization of posets with the fixed point property (with J. A. Dias da Silva), *Discrete Math.* 169(1997), 199-203.
172. Introduction to algebraic codes (with W. C. Hoffman and V. Pless), *Handbook of Coding Theory*, edited by V. Pless and W.C. Hoffman, Elsevier, 1998, 3-139. [Expository]
173. Partial Ferrer Matrices (with Li Qiao), *Appl. Math. J. Chinese Univ.*, 9: B (1994), 279-290.
174. On the spectral radius of (0,1)-Matrices with 1's in prescribed positions (with S. G. Huang), *SIAM J. Matrix Analysis*, 17 (1996), 487-508.
175. The minimal presentations of a bicircular matroid (with N. A. Neudauer), *Oxford Quar. J. Math*, 48 (1997), 17-26.
176. Vector majorization via positive definite matrices, (with S. G. Hwang and S.-S. Pyo), *Linear Algebra Applies*, 257 (1997), 105-120.
177. Multicolored trees in complete graphs (with Susan Hollingsworth), *J. Combin. Theory, Series B*, 68 (1996), 310-313.
178. Multicolorism in graph theory, *Proceedings of the Prague Mathematical Conference 1996*, 41-46, Icarus, 1997. [Expository]
179. Covering radius (with S. Litsyn and V. Pless), *Handbook of Coding Theory*, Elsevier Science, 1998, 755-826.[Expository]

180. Nested subsets, gaps, and discrepancies (with J. Sanderson), *Ocealogia*, 119 (2), 1999, 256-264.
181. A tribute to Hans Schneider, *Linear Alg. Applics*, 302-3 (1999), 3-16 [Expository].
182. Combinatorial Matrix Analysis, *Encyclopedia of Optimization*, vol. 1, edited by C. Floudas and P. Pardalos, Kluwer Academic Publ. 2001, 254-259. [Expository]
183. Discrepancy of Matrices of Zero and Ones (with Jian Shen), *Electronic J. of Combinatorics*, 10 pages, Vol. 6 (1), 1999, # R15.
184. Multicolored forests in complete bipartite graphs (with Susan Hollingsworth), *Discrete Math*, 240, 2001, 239-245.
185. Disjoint cycles in Eulerian digraphs and the diameter of interchange graphs (with Jian Shen), *J. Combin. Theory B*, 85 (2002), 189-196.
186. Diameter of the NEPs of bipartite graphs (with Jian Shen), *Discrete Math.* 226 (2001), 373-376.
187. Landau's inequalities for tournament scores and a short proof of a theorem on transitive subtournaments (with Jian Shen), *J. Graph Theory*, 2001, 244-254.
188. Short proofs of the Gale & Ryser and Ford & Fulkerson characterizations of the row and column sum vectors of (0,1)-matrices, *Math. Ineqs. & Applics*, 4 (2001), 157-159.
189. Minimal nonnegative integral matrices and uniquely determined (0,1)-matrices, *Linear Alg. Applics.*, 341 (2002), 351-356.
190. Majorization-constrained doubly stochastic matrices (with Geir Dahl), *Linear Alg, Applics.*, 361 (2003), 75-97.
191. Linear preservers and diagonal hypergraphs, *Linear Alg. Applics*, 373 (2003), 51-65.
192. Graphs and Matrices (with Bryan Shader), to appear in a book on algebraic graph theory, edited by L. Beineke and R.J. Wilson, 30 pages. [Expository]
193. Maximal nests of subspaces, the matrix Bruhat decomposition, and the Marriage Theorem, with an application to graph coloring, *Elec. J. Linear Algebra*, 9 (2002), 118-121.
194. Combinatorial classes of matrices, *Discrete Math.*, 13 pages [Mostly expository]
195. Matrices of zeros and ones with given line sums and a zero block (with Geir Dahl), *Linear Alg. Applics*, 371 (2003), 191-207.
196. Aztec diamonds and digraphs, and Hankel matrices of Schröder numbers, (with Steve Kirkland), 20 pages. *J. Combinatorial Theory, Series B*, 94 (2005), 334-351.
197. Algorithms for constructing (0,1)-matrices with prescribed row and column sum vectors, 12 pages, *Discrete Math.* (to appear)
198. Report on the International Workshop on Combinatorics, Linear Algebra, and Graph Coloring (Tehran, August 2003), *Bulletin of the Institute of Combinatorics and its Applications*, 40 (2004), 122-125. [Expository]

199. A partition problem for sets of permutation matrices (with H. Chiang and C.L. Li), *Bulletin of the Institute of Combinatorics and its Applications*, 43 (2005), 67-79.
200. Sum list coloring graphs (with A. Berliner, U. Bostelmann, and L. Deaett), 13 pages, *Graphs & Combinatorics*, to appear.
201. Perfect Matching Preserves (with M. Loebel and O. Pangrec), submitted, 18 pages.
202. A Bruhat order for the class of $(0,1)$ -matrices with prescribed row and column sum vectors (with Suk-Geun Hwang), *Electronic J. of Linear Algebra*, 12 (2004-05), 6-16.
203. Constructing $(0,1)$ -matrices with given line sums and certain fixed zeros (with Geir Dahl), in preparation.

BOOK REVIEWS IN JOURNALS

1. Probabilistic methods in combinatorics by P. Erdos and J. Spencer, *Lin. and Multilin. Alg.*
2. On the foundations of combinatorial theory: Combinatorial Geometries, by Henry Crapo and Gian-Carlo Rota, MIT Press, 1970; *SIAM Review* 14 (1972), 184-185.
3. Transversal theory by L. Mirsky, Academic Press, 1971; *SIAM Review* 15 (1973) 393-395.
4. Permanents, by H. Minc, Addison-Wesley, (1978); *Bull. Amer. Math. Soc. (new series)* 1 (1979), 965- 973. [Also noted in publication list]
5. Kronecker products and matrix calculus with applications, by Alexander Graham, Halsted Press (1981); *Lin. Alg. and its Applic.* 60 (1984), 199-200.
6. Elements of Matrix Theory, by M. L. Mehta, Hindustan Publ. Co. 1977; *Lin. Alg. and its Applics.* 62 (1984), 293-294.
7. Proceedings of the Second International Tampere Conference in Statistics, Univ. of Tampere (1987), *Lin. Alg. and it's Applics.* 111 (1988), 325-326.
8. Nonnegative matrices, by H.Minc, Wiley (1988), *American Scientist*, 1989.
9. Recent results in the theory of graph spectra, by D. Cvetkovic, M. Doob, I Gutman and A. Torgasev (1988), *Lin. Alg. and it's Applics.*, 126 (1989), 145-151.
10. Some Eclectic Matrix Theory, by K. Miller (1987), *Lin. Alg. and its Applic.* 139 (1990), 293-294.

RESEARCH PROBLEMS

1. Problem 31 (with Li Qiao), *Discrete Math.* 43 (1983), 329-330.
2. Permanents of direct products, *Lin. and Multilin. Alg.* 20 (1987), 387-388.
3. Problem on permanents and determinants, *Lin. Alg. and its Applics.* 104(1988), 243-44.
4. Problem on triangularibility, *Lin. Alg. and its Applics.*, 107 (1988).

BOOKS

1. Introductory Combinatorics, 1st edition 1977, 2nd expanded edition 1991, 3rd edition 1999, 4th edition 2004, Prentice-Hall, New Jersey.
2. Combinatorial Matrix Theory (with H.J. Ryser), 1991, Cambridge University Press, Cambridge.
3. The Matrices of Sign Solvable Linear Systems (with B.L. Shader), 1995, Cambridge Tracts in Mathematics, No. 116, Cambridge University Press.
4. Combinatorial Matrix Classes, in progress.

BOOKS EDITED

1. Linear Algebra and Its Role in Systems Theory (with D. H. Carlson, B. N. Datta, C. R. Johnson, R. J. Plemmons), Contemporary Mathematics, Vol. 47, Amer. Math. Soc. 1985.
2. Combinatorial and Graph Theoretic Problems in Linear Algebra (with S. Friedland and V. Klee), Springer-Verlag 1993.
3. Handbook of Coding Theory (Assistant Editor), Elsevier Science B.V., 1998.

Ph.D. STUDENTS (with current position)

1. John M. Mason (1969), Representation of independence spaces. (Open University, England)
2. George W. Dinolt (1971), Extremal and characterization problems in matroid theory. (Naval Postgraduate School) Research, San Jose)
3. Thomas H. Foregger (1973), Some problems in combinatorial theory. (AT & T Bell Labs, New Jersey)
4. Marianne L. Gardner (1975), Intersection and chromatic properties of graphs and hypergraphs. (Addison- Wesley)
5. Robert F. Shanny (1977), Some theorems dealing with hamiltonian graphs and matching in graphs, (degree from University of Wisconsin-Milwaukee). (current position unknown)
6. Marsha F. Foregger (1979), Decompositions of graphs. (last position was at AT & T Bell Labs, New Jersey, now retired)
7. Jeffrey Ross (1980), Some theorems in combinatorial matrix theory. (Systems Engineer, Richardson, Texas)
8. John Goldwasser (1983), Some contributions to the theory of permanents. (University of West Virginia)
9. Jia-yu Shao (1984), On the properties of nonnegative primitive matrices, irreducible matrices, and their associated directed graphs. (Tongji University, Shanghai, China)
10. Dan Pritikin (1984), Extremal properties in graph homomorphisms and vertex identifications. (Miami University (Oxford))
11. Suk-Geun Hwang (1985), Minimization problems for the permanent function on classes of nonnegative matrices. (Kyungpook National University, Korea)
12. Ernie Solheid (1985), On the spectral radius and the determinant of matrices of zero's and one's. (California State University, Fullerton)
13. T. S. Michael (1988), The structure Matrix of the class of multigraphs with a presolved degree sequence. (U.S. Naval Academy)
14. Han-Hyuk Cho (1988), Semigroups of Boolean matrices. (Seoul National University, Korea)
15. Kevin McDougal (1989), Some combinatorial properties of $(0,1)$ - matrices. (deceased)
16. Bryan Shader (1990), Biclique partitions and tournaments. (University of Wyoming)
17. Keith Chavey (1991), Combinatorial methods in the study of matrices and matrix spaces. (University of Wisconsin - River Falls)
18. Geum Sug Hwang (Son) (1991), Contributions to Combinatorial Matrix Theory and Coding. (Pusan Institute of Technology, Korea)
19. Hyungchan Jung (1991), Some Contributions to the Combinatorial Theory of Partially Ordered Sets. (Korean Institute of Technology and Education, Korea)

20. Chih How Tan (1992), Codes in affine matrix schemes. (Singapore Defence Organization, Korea)
21. Jennifer Quinn Massey (1993), Colorings and cycle packings in graphs and diagraphs. (Occidental College)
22. Stephen Mellendorf (1994), Hamilton decompositions of Cartesian products of multicycles. (Interactive Brokers, NYC)
23. K. Mark Lawrence (1995), Combinatorial bounds and constructions in the theory of uniform point distributions in unit cubes, connections with orthogonal arrays and a poset generalization of a related problem in coding theory. (Australian and New Zealand Banking Group LTD, Australia)
24. Elizabeth Sneyd (1997), Tolerance graphs and pseudo-internal graphs. (Environmental Science Research Centre, New Zealand)
25. Nancy Neudauer (1998), The transversal presentations and graphs of Bicircular Matroids. (Pacific University, Oregon)
26. Ki-Bong Nam (1998), Generalized Witt algebras over a field of characteristic zero. (University of Wisconsin-Whitewater)
27. Yoomi Rho (1999), Progress on three problems in graph theory. (Seoul National University, Korea)
28. Daode Huang (1999), Biclique Partitions and Generalized Tournament Matrices. (Capital One, Virginia)
29. Vadim Ponomarenko (1999), Jump Systems and Rota's conjecture. (Trinity University, San Antonio)
30. Jeng-yune Park (1999) The Weight Hierarchies of Product Codes and Outer Product Codes.
31. Liang-yu Shieh (2001) On Minimum Rank Matrices having a Prescribed Graph. (Taiwan)
32. Ken Gerber (2002). On the Chromatic Sum, Strength, and Weakness of Graphs. (John Abbot College, Montreal)
33. Susan Hollingsworth (current).
34. Adam Berliner (current).
35. Louis Deaett (current)