Curriculum Vitae

Georgia Benkart

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University of Wisconsin - Madison
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PERSONAL DATA:

Citizenship:	USA
Home Address:	702 South Prospect Avenue Madison, Wisconsin, 53711
Home Telephone:	(608) 255-2690

EDUCATION:

Ph.D.	Yale University 1974
M.Phil.	Yale University 1973
B.S.	Ohio State University 1970

AREAS OF SPECIALIZATION:

Lie Algebras, Representation Theory, Combinatorics

EMPLOYMENT:

Academic Positions:

University of Wisconsin	Professor of Mathematics 1983–
University of Wisconsin	Associate Professor 1979-1983
University of Wisconsin	Assistant Professor 1976-1979
University of Wisconsin	C.C. MacDuffee Instructor 1974-1976

Visiting Positions:

Mathematical Sciences Research Institute	Visiting Professor, Spring 2000
Institute for Advanced Study	Visiting Professor, February 1999
Mathematical Sciences Research Institute	Visiting Professor, Spring 1997
Institute for Advanced Study	Visiting Professor, Fall 1996
Aspen Center for Physics	Visiting Associate Professor, Summer 1979
University of Virginia	Visiting Assistant Professor, Fall 1976

HONORS:

Polya Lecturer, Mathematical Association of America 2000-2002

University of Wisconsin WARF Mid-Career Faculty Research Award 1996

University of Wisconsin Distinguished Teaching Award 1987

University of Wisconsin Romnes Fellowship 1985

Phi Beta Kappa, Woodrow Wilson Fellow

B.S. Summa Cum Laude with Distinction in Mathematics Ohio State Univ. 1970

INVITED ADDRESSES:

September 2000	Fields Institute, Toronto, Workshop on Infinite-Dimensional Lie Algebras
September 2000	AMS Meeting, Toronto
	Special Session on Infinite-Dimensional Lie Algebras 45 min. talk
August 2000	Conference on Jordan Algebras, Oberwolfach, Germany (plenary lecture)
June 2000	Lie Theory Workshop, Algebra 2000, University of Alberta, Canada
May 2000	Seoul National University, Korea
May 2000	University of California, Berkeley, Noetherian Ring
May 2000	University of California, Berkeley
April 2000	Lie Groups, Lie Algebras, and their Representations Conference
	University of California, Santa Cruz
February 2000	MSRI, Noncommutative Algebra and Algebraic Geometry Conference
October 1999	University of Wisconsin, Parkside
October 1999	Korea Institute for Advanced Study, Lie Theory Conference
June 1999	Seoul National University, Korea, Summer Algebra Camp
June 1999	Korea Institute for Advanced Study (3 lectures)
May 1999	The Taft Lectures, University of Cincinnati
May 1999	Macalester College
April 1999	AMS Meeting, Buffalo, New York
	Special Session on Representations of Lie Algebras
March 1999	Brandeis-Harvard-MIT-Northeastern Colloquium
March 1999	Yale University
February 1999	Center for Communications Research
February 1999	Princeton University
October 1998	Lie Theory Conference, University of California Riverside
August 1998	Universidad de la Rioja, Spain (2 lectures)
July 1998	Combinatorial Methods In Representation Theory Workshop
	Research Institute for Mathematical Sciences, Kyoto University, Japan
July 1998	Conference on Generalizations of Kac-Moody Algebras
	Oberwolfach, Germany (2 lectures)
June 1998	Formal Power Series, Algebraic Combinatorics, Fields Institute, Toronto
May 1998	Conference on Affine and Quantum Affine Algebras
	North Carolina State University
May 1998	Conference on Algebraic Combinatorics & Applications, Oakland University
April 1998	Spring Lecture Series, University of Arkansas
March 1998	AMS Meeting, Manhattan, Kansas
	Special Session on Representations of Quantum Groups and Algebraic Groups
October 1997	AMS Meeting, Milwaukee
	Special Session on Enveloping Algebras and Quantum Groups
August 1997	Recent Progress in Algebra Conference
	Korean Advanced Institute of Science and Technology, Taejon, Korea
August 1997	Korea Institute for Advanced Study
August 1997	Seoul National University, Korea - 2 lectures
June 1997	Universidad de Oviedo, Spain
June 1997	International Conference on Jordan Structures
	Universidad de Malaga, Spain
May 1997	Universidad de la Rioja, Spain
May 1997	University of California, Santa Cruz
April 1997	University of California, Riverside
April 1997	Lie Groups, Lie Algebras, and their Representations Conference, UCLA

INVITED ADDRESSES cont.:

April 1997	Representation Theory and Symmetric Functions Workshop, MSRI
April 1997	Intermountain MAA Meeting, Logan Utah, hour address
March 1997	University of Iowa
January 1997	Hong Kong University of Science and Technology Colloquium
January 1997	Hong Kong University of Science and Technology Algebra Seminar
December 1996	Rutgers University Colloquium
November 1996	Yale University
November 1996	Institute for Advanced Study
November 1996	Rutgers University Algebra Seminar
September 1996	Workshop in Algebra Ottawa-Carleton Institute of Mathematics and Statistics, Canada
August 1996	Kansas State University
July 1996	Korean Advanced Institute of Science and Technology, Taejon, Korea
July 1996	Daewoo Workshop, Hallym University, Chunchon, Korea (series of 3 lectures)
July 1996	Seoul National University, Seoul, Korea
May 1996	Utah State University
May 1996	Lie Algebra Conference, Ohio State University
May 1996	Modern Algebra and Its Applications, Vanderbilt University
April 1996	Yale University
March 1996	Miniconference Group Representations in Physics, University of Iowa
March 1996	Group Representations in Physics, Special Session AMS Meeting, University of Iowa
February 1996	Conference on Jordan and Lie Algebras, Oberwolfach, Germany
May 1995	University of Minnesota
April 1995	Awards Day, Macalester College
March 1995	Lie Theory Special Session, AMS Meeting, Chicago
March 1995	The Gentry Lectures, Wake Forest University
February 1995	Modular Interfaces Conference, University of California, Riverside
January 1995	Symposium on Representation Theory, Seoul National Univ., Korea, Principal lecturer - 4 lectures
January 1995	Workshop on Algebra, Morelia, Mexico
November 1994	University of Chicago
July 1994	Universidad de Oviedo, Spain
June 1994	Universidad de Zaragoza, Spain - series of 4 lectures
February 1994	Western Canada Algebra Conference (sponsored by Univ. of Alberta) 2 lectures
January 1994	AMS-MAA Invited Hour Address, Cincinnati
July 1993	3rd International Conf. on Nonassociative Algebras & Applications, Oviedo, Spain
May 1993	Queens University Conference on Modern Trends in Lie Theory
April 1993	University of Wisconsin, Parkside
December 1992	Holiday Symposium - New Mexico State University Principal lecturer - 10 hours of lectures
August 1992	Conference on Jordan and Lie Algebras, Oberwolfach, Germany
June 1992	SIAM Meeting on Discrete Mathematics, Vancouver B.C.
April 1992	Wisconsin Section MAA, Hour Address, University of Wisconsin, Whitewater
April 1992	Yale University Conference in Honor of George Seligman

INVITED ADDRESSES cont.:

April 1992	MIT
February 1992	Northwestern University - 2 lectures
May 1991	Universidad de Zaragoza, Spain - series of 4 lectures
March 1991	North Carolina State University
March 1991	Loyola University, Chicago
October 1990	Midwest Lie Theory Seminar - University of Wisconsin, Parkside
August 1990	Conference on Nonassociative Algebras and Hadronic Mechanics, University Northern Iowa
April 1990	Algebra Day - University of Ottawa
August 1989	Canadian Math. Soc. Seminar on Lie Theory, Differential Equations Université de Montréal
June 1989	Canadian Math. Soc. Summer Meeting - University of Windsor
April 1989	Marquette University
March 1989	University of Windsor
March 1989	University of Michigan - 2 lectures
February 1989	Ohio State University - 2 lectures
December 1988	Lie Algebras and Kac-Moody Algebras Conference, North Carolina State University
August 1988	Conference on Jordan and Lie Algebras, Oberwolfach, Germany
April 1988	MAA Meeting, Hour Address, St. Paul, Minn.
April 1988	Macalester College
October 1987	University of Wisconsin, Milwaukee
August 1987	Workshop on Lie Algebras, Madison, Wi.
August 1985	Conference on Jordan and Lie Algebras, Oberwolfach, Germany
February 1985	Université de Montréal
October 1984	University of Wisconsin, Parkside
September 1984	University of Wisconsin, Milwaukee
June 1984	Canadian Math. Soc. Conference on Lie Algebras and Related Topics University of Windsor
August 1983	Fifth Workshop on Lie-Admissible Formulations, Institute for Basic Research, Cambridge Mass.
August 1982	Conference on Jordan and Lie Algebras, Oberwolfach, Germany
April 1982	University of Wisconsin, Milwaukee
January 1982	Conference on Non-Potential Interactions and Their Lie-Admissible Formulations, Orleans, France
August 1981	Fourth Workshop on Lie-Admissible Formulations Institute for Basic Research, Cambridge Mass.
June 1981	Yale University Conference in honor of Nathan Jacobson
May 1981	Rutgers Conference on Lie Algebras and Related Topics
October 1980	University of Wisconsin, Parkside
August 1980	Third Workshop on Lie-Admissible Formulations Institute for Basic Research, Cambridge Mass.
August 1980	MAA-AMS Joint Summer Meeting, Hour Address Ann Arbor, Michigan
August 1979	Conference on Jordan and Lie Algebras, Oberwolfach, Germany
June 1979	Aspen Center for Physics

INVITED ADDRESSES cont.:

April 1979	University of Illinois, Champaign-Urbana
April 1979	Michigan State University
March 1979	Indiana University
March 1979	University of Michigan
March 1979	Nonassociative Algebras and Applications, AMS Meeting Honolulu, Hawaii
April 1977	Yale University
October 1976	University of Virginia
August 1976	Conference on Jordan and Lie Algebras, Oberwolfach, Germany
February 1975	University of Wisconsin, Madison
January 1975	Lie Algebras, AMS Meeting, Washington D.C.
April 1974	Fordham University
April 1974	University of Georgia
March 1974	Vanderbilt University
February 1974	Bucknell University

RESEARCH GRANTS:

National Science Foundation 1975−present

CRDF Cooperative Grants Program 1996

National Science Foundation US-USSR Cooperative Program 1992.

National Science Foundation - Special Year of Lie Algebras 1987-1988.

OTHER SCIENTIFIC ACTIVITIES:

Editorships:

American Mathematical Society Surveys and Monographs Editorial Board 1994−present
Chair 1995−1996

Journal of Algebra 1991−present

Korean Mathematical Colloquium 1996−present

Nova Journal of Algebra and Geometry 1991−1995

Communications in Algebra 1985-1990

Algebras, Groups and Geometries 1984-1990

Refereeing and Reviewing for:

Proceedings Amer. Math. Soc., Transactions Amer. Math. Soc., Pacific Journal, Journal of Algebra, Canadian Journal, Journal of Math. Physics, Linear Algebra and its Applications, American Math. Monthly, Journal of Pure and Applied Algebra, Proceedings of the Edinburgh Math. Society, Mathematische Annalen, Algebras, Groups and Geometries, Israel Journal of Mathematics, International Mathematical Research Notices

Mathematical Reviews

Grant Reviews for National Science Foundation, National Security Agency, National Research and Engineering Council - Canada, Research Council of Chile, Hong Kong Research Grants Council

NATIONWIDE PANELS:

American Mathematical Society Central Sections Program Committee 1999-2000

Review Team of the University of Nevada, Department of Mathematics, 1998

American Mathematical Society - NSF Panel on ICM 98 Travel Grants 1997

American Mathematical Society Council 1995-1996

American Mathematical Society Review Committee on Policy Committees 1996

NSF Committee of Visitors 1995

NSF Panel on Conference Board of the Mathematical Sciences Conferences 1990-1992

NSF Panel on Minority Research Initiatives and Research Opportunities for Women 1993.

PH.D. STUDENTS:

Matthew Bloss (current)
Manish Chakrabarti (current)
Samuel Lopes (current)
Shantala Mukherjee (current)
Jeffrey Hildebrand (2000)
Cheryl Grood (1998)
Dongho Moon (1998)
Oliver Eng (1996)
Robert Leduc (1994)
Thomas Halverson (1993)
Qing Wang (1992)
Karl Peters (1992)
Chanyoung Lee (1992)
Jeffrey Stroomer (1991)
Mark Hall (1987)
Wayne Neidhardt (1985)
Steven Kass (1984)
Suren Fernando (1983)

PUBLICATIONS:

1. The Lie inner ideal structure of associative rings, Journal of Algebra **43** (1976), 561-584.

2. On inner ideals and ad-nilpotent elements of Lie algebras, Trans. Amer. Math. Soc. **232** (1977), 61-81.

3. On the existence of ad-nilpotent elements (with I.M. Isaacs) Proc. Amer. Math. Soc. **63** (1977), 39-40.

4. Lie algebras with self-centralizing ad-nilpotent elements (with I.M. Isaacs and J.M. Osborn), Journal of Algebra **57** (1979) 279-309.

5. Albert-Zassenhaus Lie algebras and isomorphisms (with I.M. Isaacs and J.M. Osborn), Journal of Algebra **57** (1979) 310-338.

6. Lie algebras with nilpotent centralizers (with I.M. Isaacs), Canad. Journal of Math. Vol. XXXI **No. 5** (1979) 929-941.

7. Derivations and automorphisms of matrices symmetric relative to a canonical involution, Journal of Algebra **62** (1980), 418-429.

8. Derivations and automorphisms of nonassociative matrix algebras (with J.M. Osborn), Trans. Amer. Math. Soc. **263** (1981), 411-430.

9. The derivation algebra of a real division algebra (with J.M. Osborn), Amer. Journal of Math. **103** (1981), 1135-1150.

10. An investigation of real division algebras using derivations (with J.M. Osborn) Pacific Journal Math. **96** (1981) 265-300.

11. Flexible Lie-admissible algebras (with J.M. Osborn), Journal of Algebra **70** (1981), 11-31.

12. Applications of isotopy to real division algebras (with D.J. Britten and J.M. Osborn), Hadronic Journal **4** (1981) 497-529.

13. Flexible Lie-admissible algebras with the solvable radical of A^- abelian and Lie algebras with nondegenerate forms (with D.J. Britten and J.M. Osborn), Hadronic Journal **4** (1981) 274-326.

14. Real division algebras and other algebras motivated by physics (with J.M. Osborn), Hadronic Journal **4** (1981) 392-443.

15. Real flexible division algebras (with D.J. Britten and J.M. Osborn), Canadian Journal of Math. **34** (1982), 550-588.

16. On the determination of rank one Lie algebras of prime characteristic (with J.M. Osborn), *Algebraists' Homage, Papers in Ring Theory and Related Topics*, Contemporary Math. Amer. Math. Soc. **13** (1982) 263-265.

17. Representations of rank one Lie algebras of prime characteristic (with J.M. Osborn), *Lie Algebras and Related Topics*, Lect. Notes in Math. **933** Springer-Verlag (1982) 1-37.

18. The construction of examples of Lie-admissible algebras, *Proceedings of the First International Conf. on Non-Potential Interactions and their Lie-admissible Treatment*, Part A, Hadronic J. **5** (1982) 431-493.

19. Power-associative products on matrices (with J.M. Osborn), *Proceedings of the First International Conf. on Non-Potential Interactions and their Lie-admissible Treatment*, Part D, Hadronic J. **5** (1982) 1859-1892.

20. Power-associative Lie-admissible algebras, Journal of Algebra **90** (1984) 37-58.

21. Rank one Lie algebras (with J.M. Osborn), Annals of Math. **119** (1984) 437-463.

22. Bimodules for flexible Lie-admissible algebras, Algebras, Groups and Geometries **1** (1984) 109-126.

23. A Kac-Moody bibliography, *Lie Algebras and Related Topics*, Britten, Lemire, and Moody, eds. Canad. Math. Soc. Conf. Proc. **5** (1986) 111-135.

24. Cartan subalgebras in Lie algebras of Cartan type, *Lie Algebras and Related Topics*, Britten, Lemire, and Moody, eds. Canad. Math. Soc. Conf. Proc. **5** (1986) 157-187.

25. Derivations, central extensions, and affine Lie algebras (with R.V. Moody), Algebras, Groups and Geometries **4** (1986) 456-492.

26. *Abstract Algebra* by I.N. Herstein, a book review, Amer. Math. Monthly **94** (1987), 804-806.

27. Toral rank one Lie algebras, (with J.M. Osborn), Journal of Algebra **115** (1988) 238-250.

28. *Lie Algebras, Madison 1987*, Proc. of a Workshop held in Madison, Wisconsin, August 23-28, 1987, (with J.M. Osborn), Lect. Notes. in Math. **1373** (1989), Berlin, Heidelberg, New York.

29. Graded Lie algebras with classical reductive null component, (with T.B. Gregory), Math. Ann. **285** (1989), 85-98.

30. Isomorphism classes of Hamiltonian Lie algebras, (with T.B. Gregory, J.M. Osborn, H. Strade, and R.L. Wilson), *Lie Algebras, Madison 1987*, Springer Lecture Notes in Math. 1373 (1989), 42-57.

31. Partitions, tableaux, and stability in the representation theory of classical Lie algebras, *Lie Theory, Differential Equations, and Representation Theory*, Proc. of the Annual Seminar of the Canadian Math. Soc. (1990), 47-76.

32. Simple modular Lie algebras with 1-sections that are classical or solvable, Comm. in Algebra **18** (1990), 3633-3638.

33. *Stability in Modules for Classical Lie Algebras - A Constructive Approach*, (with D.J. Britten and F.W. Lemire), Memoir Amer. Math. Soc. **430** (1990), Providence, R.I. (168 pages).

34. Simple Lie algebras of characteristic p with dependent roots, (with J.M. Osborn), Trans. Amer. Math. Soc. **318** (1990), 783-807.

35. Tableaux and insertion schemes for spinor representations of the orthogonal Lie algebra $so(r+1, C)$ (with J. Stroomer), J. Combin. Theory A **57** (1991), 211-237.

36. *Lie Algebras and Related Topics*, (with J.M. Osborn) Contemporary Math. Amer. Math. Soc. **110** (1990), Providence. R.I. (313 pages).

37. Projection maps for tensor products of $gl(r, C)$-representations, (with D.J. Britten and F.W. Lemire), Publ. RIMS, Kyoto **28** (1992), 983-1010.

38. Graded Lie algebras of Kac-Moody type, (with S.-J. Kang and K.C. Misra), Adv. in Math. **97** (1993), 154-190.

39. A combinatorial model for tensor products of the spin representation, (with J. Stroomer) *Hadronic Mechanics and Nonpotential Interactions*, (1993), 37-51.

40. Contributions to the classification of simple modular Lie algebras, (with J.M. Osborn and H. Strade), Trans. Amer. Math. Soc. **341** (1994), 227-252.

41. Indefinite Kac-Moody Lie algebras of classical type, (with S.-J. Kang and K.C. Misra), Adv. in Math. **105** (1994), 76-110.

42. Weight multiplicities for affine Kac-Moody algebras, (with S.N. Kass) *Modern Trends in Lie Algebra Representation Theory*, V. Futorny and D. Pollack eds., Queens U. Press, **94** (1994) 1-12.

43. Tensor product representations of general linear groups and their connections with Brauer algebras, (with M. Chakrabarti, T. Halverson, R. Leduc, C. Lee, and J. Stroomer), Journal of Algebra **166** (1994), 529-567.

44. Stability in modules for general linear Lie superalgebras, (with C. Lee), Nova J. of Algebra and Geometry, **2** (1994), 383-409.

45. Lie algebras graded by root systems, (with E. Zelmanov), Proc. of the Third International Conf. on Nonassociative Algebras and their Applications, S. Gonzalez ed., Kluwer Publ. (1994), 31-38.

46. Finite dimensional simple Lie algebras with a nonsingular derivation, (with A.I. Kostrikin and M.I. Kuznetsov), Journal of Algebra **171** (1995), 894-916.

47. Indefinite Kac-Moody Lie algebras of special linear type, (with S.-J. Kang and K.C. Misra), Pacific J. Math. **170** (1995), 379-404.

48. The simple Lie algebras of characteristic three with classical reductive component L_0, (with A.I. Kostrikin and M.I. Kuznetsov), Comm. in Algebra **24** (1996), 223-234.

49. Tableau switching: algorithms and applications, (with F. Sottile and J. Stroomer), J. Combin. Theory A. **76** (1996), 11-43.

50. Weight multiplicity polynomials for affine Kac-Moody algebras of type $A_r^{(1)}$, (with S.J. Kang and K.C. Misra), Compositio Math. 104 (1996), 153-187.

51. Lie algebras graded by finite root systems and intersection matrix algebras (with E. Zelmanov), Inventiones Math. 126 (1996), 1-45.

52. Commuting Actions: A tale of two groups, Contemporary Math. Amer. Math. Soc. **194** (1996) 1-46.

53. Tensor representations for orthosymplectic Lie superalgebras and hook Schur functions, (with C. Lee Shader and A. Ram), FPSAC 96, 8th International Conf. on Formal Power Series and Algebraic Combinatorics, (1996), 25-36.

54. Modules with bounded weight multiplicities for simple Lie algebras (with D.J. Britten and F.W. Lemire), Math. Zeitschrift **225** (1997), 333-353.

55. Highest weight modules for locally finite Lie algebras, (with Yu. Bahturin), Modular Interfaces, AMS/IP Studies in Advanced Math. **4** (1997), 1-31.

56. Lie algebras graded by finite reduced root systems, Lie Algebras and Combinatorics, H.H. Cho and S.G. Hahn, eds., Pure Math. Research Assoc., Korean Acad. Council, vol. 16 (1997), 1-26.

57. Quantized enveloping algebras of Borcherds superalgebras, (with S.J. Kang and D. Melville), Trans. Amer. Math. Soc. **350** (1998), 3297-3319.

58. Tensor product representations for orthosymplectic Lie superalgebras, (with C. Lee Shader and A. Ram), Journal of Pure and Applied Algebra **130** (1998), 1-48.

59. Derivations and invariant forms of Lie algebras graded by finite root systems, Canad. J. Math. **50** (1998), 225-241.

60. On graded Lie algebras of characteristic three with classical reductive null component, (with T. Gregory and M.I. Kuznetsov), *The Monster and Lie Algebras*, ed. by J. Ferrar and K. Harada, de Gruyter Berlin, New York (1998), 149-164.

61. Down-up algebras and Witten's deformations of the universal enveloping algebra of sl_2, *Recent Progress in Algebra*, Contemp. Math. Amer. Math. Soc. **224** (1999), 29-45.

62. The classification of the simple modular Lie algebras. VI. Solving the final case by Helmut Strade. Mathematical Reviews Featured Review, 98j: 17020.

63. Differential posets and down-up algebras, FPSAC 98, 10th International Conf. on Formal Power Series and Algebraic Combinatorics, (1998), 43-54.

64. Down-up algebras (with T. Roby), Journal of Algebra, **209** (1998), 305-344; Addendum **213** (1999), 378.

65. Lie algebras graded by finite root systems from AD to BC, *Proc. International Conf. on Jordan Structures* Castellon, Cuenca, Fernandez, and Martin eds. (1999) 39-45.

66. Polynomial behavior of representations of affine algebras of type A, (with S.-J. Kang, H. Lee, K.C. Misra, and D.-U. Shin), accepted 1/12/00 Compositio Math. (21 pages).

67. Crystal bases for the quantum superalgebra $U_q(gl(m,n))$, (with S.-J. Kang and M. Kashiwara), Journal of Amer. Math. Soc. **13** (2000), 295-313.

68. Central extensions of Lie algebras graded by finite root systems, (with B. Allison and Y. Gao) Math. Ann. **316** (2000) 499–527.

69. A quantum octonion algebra, (with J. Perez-Izquierdo), Trans. Amer. Math. Soc. **352** (2000), 935–968.

70. The polynomial behavior of weight multiplicities for classical simple Lie algebras and classical affine Kac-Moody algebras, (with S.-J. Kang, H. Lee, and D.-U. Shin), *Quantum Affine Algebras and Related Topics*, Jing & Misra eds., Cont. Math. Amer. Math. Soc. 248 (1999) 1-29.

71. Crystal bases for quantum superalgebras, (with S.-J. Kang), RIMS, Kyoto accepted 11/11/99 (29 pages).

72. Lie algebras graded by the root system BC_r, $r \geq 2$, (with B. Allison and Y. Gao), accepted 2/11/00 Memoirs, Amer. Math. Soc. (205 pages).

73. A Hopf structure for down-up algebras, (with S. Witherspoon), Math. Zeitschrift accepted 4/10/00 (26 pages).

74. Nathan Jacobson, (1910-1999), Notices Amer. Math. Soc., **47** 1061-1071.

75. Two-parameter quantum groups and Drinfel'd doubles, (with S. Witherspoon), submitted 8/28/00.

76. Lie algebras graded by the root system BC_1, (with O. Smirnov), in preparation

77. Classical Lie superalgebras over simple associative algebras (with X. Xu and K. Zhao), in preparation.

78. The separation and annihilation theorems for down-up algebras, (with M. Gorelik), in preparation.

79. On The Recognition Theorem, (with T.B. Gregory and A. Premet), monograph in preparation.

80. *Combinatorial Representation Theory*, (with A. Ram), book in preparation.

(All papers except #23, #26, #62 and those in preparation have been refereed.)