

CURRICULUM VITAE for SUSAN MONTGOMERY (10/19/2007)

Education

1965 B. A. (summa cum laude) University of Michigan
1966 M. S. University of Chicago
1969 Ph.D. University of Chicago

Academic Positions

1969-70 DePaul University (Assistant Professor)
1970- University of Southern California (Assistant Professor 1970-75, Associate Professor 1975-82, Professor 1982-present, Chair 1996-99)

Visiting Positions

1973 Visiting Assistant Professor, Hebrew University, Jerusalem (February-May)
1977 Visiting Associate Professor, University of Chicago (February-August); Visiting Research Associate, University of Leeds (September 1-October 15); Fellow, Institute for Advanced Studies, Hebrew University (Oct.15-Jan. 15, 1978)
1981 Visiting Research Associate, University of Leeds (April-June)
1985 Visiting Scholar, UC San Diego (February-March); Member, Math Sciences Research Institute (MSRI), Berkeley (April-June); Honorary Fellow, University of Wisconsin, Madison (September-December)
1988 Visiting Professor, University of New South Wales, Sydney (July)
1993 Member, MSRI, Berkeley (June)
1996 Gastprofessor, Mathematisches Institut, University of Munich, Germany (January-June)
1999-2000 Co-organizer and member, Non-commutative Algebra Year, MSRI, Berkeley
2004 Member, Mittag-Leffler Institute, Sweden (March-April)

Fellowships, Grants, Awards

1965 Woodrow Wilson Fellow
1965-69 NSF Graduate Fellow
1981-83 US-Israel Binational Science Foundation Research Grant; Co-investigator M. Cohen, Ben Gurion University, Beersheva, Israel
1984-85 John S. Guggenheim Memorial Foundation Fellow
1987 Albert S. Raubenheimer Distinguished Faculty Award, Division of Natural Sciences and Mathematics, University of Southern California.
1999 NSA grant for Hopf Algebras Workshop at MSRI (awarded through MSRI)
2005 NSA travel grant for US participants in the XVI Colloquio Latinamericano de Algebra, Colonia, Uruguay. PI was Frank Sottile at Texas A&M; co-PIs were Joseph Wolf at UC Berkeley and myself.
1971-2010 NSF Summer Research Grant (sole PI since 1979). Last three grants, rounded to nearest thousand: DMS 01-00461 (\$108,000), DMS 04-01399 (\$105,000), DMS 07-01291 (\$211,000).

2007 NSF grant (DMS-0646057) for Intercampus Workshop Program: Lie groups, Lie algebras, and their representations, 2007-2010. PI was Geoffrey Mason at UC Santa Cruz; co-PIs were Joseph Wolf at UC Berkeley, Milen T. Yakimov at UC Santa Barbara, and myself).

Professional Activities

I. Editorial Boards

Associate Editor, American Math Monthly, 1978-81.

Editorial Committee, AMS Notices, 1979-82.

Editorial Committee, AMS Math Surveys and Monographs, 1983-90 (Chair, 89-90).

Editorial Board, Communications in Algebra, 1986-88

Coordinating Editor for Algebra and Number Theory, Proceedings of the AMS, 1992 - January 1996.

Editorial Board, Advances in Math, 1995 - 2002

Editorial Board, Algebra Colloquium, 1996 - 2002

Editorial Board, Journal of Algebra, 1988 - 2007

Editorial Board, Journal of Algebras and Representation Theory, 1998 -

II. Meeting Organization

Co-organizer, Special Session on Ring Theory, AMS Annual Meeting, Louisville, 1984.

Chair, Organizing Committee, AMS-IMS-SIAM Joint Summer Research Conference on Group Actions on Rings, Brunswick, Maine, July 8-14, 1984.

Organizing Committee, MSRI Microprogram on Non-commutative rings, Berkeley, 1989

Co-organizer, Special Session on Hopf algebras, AMS Annual Meeting, San Francisco, 1991.

Organizing Committee, International Conference in Algebra in honor of A. I. Shirshov, Barnaul, USSR, 1991.

Overall Program Committee Member and Coorganizer of the Special Session on Algebra, Joint AMS-Benelux Math Societies meeting, Antwerp, Belgium, May 22-25, 1996.

Co-organizer, Special Session on Hopf Algebras, AMS meeting in Pasadena, November, 1996.

Organizing Committee, Non-Commutative Algebra Year, MSRI, Berkeley, 1999-2000.

Chair, Organizing Committee, Hopf Algebras Workshop, MSRI, Berkeley, 1999.

Organizing Committee, MSRI-UNAM meeting on Quantum Groups, Morelia, Mexico, 2000

Co-organizer of the AMS Special Session on Hopf Algebras, Courant Institute, New York City, 2003.

Co-organizer of the Canadian Math Society Special Session on Hopf Algebras and Related Topics, Halifax, Nova Scotia, June 2004.

Co-organizer of the AMS Special Session on Hopf Algebras and Quantum Groups, Joint Meeting of the AMS with the Deutsche Mathematische Vereinigung (DMV) and the Östereiche Mathematische Gesellschaft (ÖMG) in Mainz, Germany, June 2005.

Co-organizer of the AMS Special Session on Hopf Algebras and Quantum Groups, DePaul University, Chicago, October 2007

III. Professional Societies

(a) American Mathematical Society (AMS):

Member of Subcommittee to write rules for CAFTES (Committee on Academic Freedom, Tenure, and Employment Security) 1978-79

Member-at-Large of the Council 1981-84.

Selection Committee for Research Fellow, 1982-84 (Chair, 83-84).

Board of Trustees, 1986-January 1996 (Chair, 1989 and 1994).

Policy Committee on Publications, 1994-95 (Chair of the Subcommittee on Books), and 1996-99 (Chair of the Committee, 1996-98).

Nominating Committee, 2006-08

(b) Mathematical Association of America (MAA):

Visiting Lecturer, 1976-78.

Program Chairman, Southern California Section, 1978-79.

Committee to select the Ford Awards, 1991-1993 (Chair, 1992-93)

Committee to select AMS-MAA hour speakers for the annual meetings, 1995-97.

(c) Association for Women in Mathematics (AWM):

Executive Committee 1975-76

Chair, Nominating Committee, 1982

Committee to select the Noether Lecturer, 1990-92, Chair 1992

IV. Other Boards and Committees

NSF Division of Mathematical Sciences Advisory Committee, 1986-89

Board on Mathematical Sciences (BMS) of the National Research Council, 1995-1998; Executive Committee 97-98.

Review Committee for the Math Dept at the University of Pennsylvania, 1997

Review Committee for the Math Dept at the University of Minnesota-Duluth, 1998

Review Committee for the Math Dept at the University of Nebraska, Lincoln, 2001

Review Committee for Mathematics Research in Norway, Oslo, Norway 2002 (included four universities and two institutes)

Review Committee for the Math Dept at Pennsylvania State University, 2003.

Review Committee for the Math Dept at Loyola University of Chicago, 2006.

Representative to Math Sciences Research Institute (MSRI), Berkeley, from USC, 1999-06

NSA Panel to Award Research Grants in Mathematics, 2004-2006.

Ph D students (all at USC) (and last known position)

Phillip Lestmann 1977 (Chair, Dept of Mathematics, Bryan College, Dayton, TN)

Danny Taming Chi 1984 (President, Cyclonics Inc, Fremont, CA)

Maria Angelone Lorenz 1991 (Lecturer, Temple University, Philadelphia)

Horia Pop 1995 (Professor of Mathematics, Mt. San Antonio College, Pomona, CA)

Ioana Boca 1995 (Lecturer, University of Illinois, Urbana)

Min Ouyang 1997 (Senior Staff Algorithm Engineer, KLA-Tencor Corp, San Jose)
Yevgenia (Jane) Kashina 1999 (Associate Professor, De Paul University, Chicago; MSRI
Postdoctoral Fellowship 1999-00)
Vitaly Linchenko 2001 (teaching high school in Russia)
Andrea Jedwab 2008 (expected)

University Service

Math Dept Language Exam Committee 1971-73
Math Dept Library Representative, and member of the Seaver Science Library Committee
1971-74
Putnam Exam coach/supervisor 1972-74
USC Curriculum Committee 1974-76
USC Faculty Senate 1974-76, 78-80, and 1983-85; Subcommittee on Classes with large
enrollments 75-76, Committee on Promotion and Tenure Policy 1983-84
USC Committee on the Buckley amendment 1975
Math Dept Personnel Committee 1975
Math Dept Search Committee 1976, 1984, 1986-87; Chair, 86-87, 89-90.
Natural Sciences Division Personnel Committee 1978-80, 1990-92.
Humanities Division Personnel Committee 1981-83
Ad-hoc committee to review changes in the Computer Science Ph D program 1983
Member of Science and Engineering panel of the President's Advisory Committee on
Promotions and Tenure (PACPT) 1984 (fall), 1986 - 88 (Chair 86-87)
Math Dept Colloquium Chair, 1987-88
Search Committee for Dean of the Natural Sciences and Mathematics Division, 1988-89.
Math Dept Merit Committee, 1991-93 (Chair, 92-93)
University Committee on Appointments, Promotions, and Tenure (UCAPT); Chair, Fall
1993 through Fall 1995.
Chair, Math Dept, 1996-99.
Academic Senate Committee on Reviews of Tenure-Track Faculty, 98-99
Academic Senate Committee on the Status of Part-Time Faculty, 1999.
Provost's Committee on Women in Science and Engineering (WiSE), 00-07.
Provost's Committee on Academic Leadership Development 00-01 (served on a panel
discussion for Department Chairs sponsored by this committee).
Academic Senate Ad-hoc Committee on Non-Tenure-Track Faculty, 2002.
Chair, Science and Engineering Panel, University Committee on Appointments, Promo-
tions, and Tenure (UCAPT), 01-03.
Member of College Faculty Council, 02-05; Vice-president, 03-04, President 04-05
Member of USC Academic Senate, representing the College, 02-06
Faculty representative to the University Crisis Team (disaster preparedness), 2005-07.
Member of University Research Committee, 02-04.
Member of UCAR Review Committee for the USC Physics department, 2005.
Math Dept Merit Committee, 2004-2006; Chair, 2005-06.
USC Academic Senate Executive Board, 2006-2007

Invited Lectures (since 1981; earlier data is incomplete)

1981

Colloquium, University of Massachusetts, Amherst
Algebraic Geometry Seminar, MIT
Colloquium and Algebra Seminar, University of Wisconsin, Madison
Algebra Seminar and Colloquium, University of Leeds, England
Scottish Algebra Colloquium, Edinburgh
Seminaire d'Algebre, Institut Henri Poincare, University of Paris VI
Algebra Workshop, Hebrew University of Jerusalem
Colloquium, AMS Special Session, Pittsburgh
Colloquium, Michigan State University
Claremont Graduate School/Pomona College

1982

Colloquium and Algebra Seminar, University of Texas, Austin
Colloquium and Algebra Seminar, Ben Gurion University, Beer Sheva, Israel
Algebra seminar, Weizmann Institute, Rehovot, Israel
MAA Invited Hour Address, AMS-MAA Summer Meeting, Toronto
Algebra seminar, Columbia University
Colloquium, Virginia Tech(VPI&SU)
Colloquium, UC San Diego

1983

Operator Algebras Seminar, UCLA
Noetherian Rings meeting, Oberwolfach, Germany
AMS Special Session, Norman, Oklahoma
AMS Special Session, Salt Lake City
NATO Advanced Study Institute in Ring Theory, Antwerp, Belgium
Colloquium, University of Edmonton
Colloquium, University of British Columbia
Colloquium, UCLA

1984

AMS Invited Hour Address, AMS Annual Meeting, Louisville, Kentucky
AMS-IMS-SIAM Joint Summer Research Conference on Group Action on Rings, Bowdoin, Maine.

1985

Distinguished Lecturer, Trinity University, San Antonio
Algebra Seminar, University of Texas, Austin
Colloquium and Algebra seminar, UC San Diego
Supporting Lecturer, CBMS Conference on Group Rings, Crossed Products and Galois Theory (D. S. Passman, Principal Lecturer), Mankato, Minn
Midwest Ring Theory Conference, Madison, Wisconsin.
Algebra Seminar (two lectures), University of Wisconsin, Madison
Colloquium, University of Michigan
Colloquium, Wayne State University
Colloquium, University of Chicago

Colloquium and Algebra seminar, University of Cincinnati

1986

Colloquium and Joint seminar on algebra and operator algebras, University of Trondheim, Norway

Ring theory meeting, Oberwolfach, Germany

SERC Workshop on Noncommutative Rings, Leeds, England

AMS Special Session on Invariant Theory, Denton, Texas

1987

Meeting to honor I. N. Herstein, University of Chicago

NATO workshop on Perspectives in Ring Theory, Antwerp, Belgium

AMS Special Session, Salt Lake City

Algebra Seminar, UC Santa Barbara

Algebra seminar, Yale University

1988

Two lectures at the Algebra Semester, Stefan Banach Mathematical Center, Warsaw, Poland

Three lectures, Beijing Normal University, China

Nankai Institute of Mathematics, Tienjin, China

Colloquium and a 3-lecture short course, University of New South Wales, Sydney, Australia

Ring Theory Seminar, Brandeis University

1989

Algebra Seminar and Colloquium, Rutgers University

Ring theory meeting, Oberwolfach, Germany

Algebra Seminar, University of Munich, Germany

MSRI Microprogram on Non-commutative Rings, Berkeley

Algebra seminar, University of Texas, Austin

1990

Algebra Seminar, University of Michigan

Azumaya 70th Birthday Conference, Bloomington, Indiana

AMS-IMS-SIAM Joint Summer Research Conference on Deformation Theory of Algebras and Quantization, with Applications to Physics, Amherst, MA

Supporting lecturer, CBMS Conference on Polynomial Identities and the Invariants of $n \times n$ matrices (E. Formanek, Principal Lecturer), Chicago

Colloquium, UCLA

1991

AMS Special Session, San Francisco

University of Washington, Seattle

Mini-course on Hopf Algebras (10 lectures), Beijing Teacher's College

International Conference in Algebra in Honor of A. I. Shirshov, Barnaul, USSR

Mid-Atlantic Algebra Conference on Quantum Groups, Wake Forest University, Winston-Salem, NC

AMS Special Session, Philadelphia

AMS Special Session, Santa Barbara

Functional analysis seminar, UCLA

1992

Colloquium, Northern Illinois University

SERC Symposium on New Directions in Non-commutative Rings, Durham, England

Principal Lecturer, CBMS Conference on Hopf Algebras and their Actions on Rings,
Chicago

University of California Lie Algebras Conference, UC Riverside

1993

AMS Special Session, San Antonio

AMS Special Session, Salt Lake City

Algebra Seminar, UC Berkeley

Gauss Symposium, University of Munich, Germany

Dozor Lecture, Ben Gurion University, Beer Sheva, Israel

Non-commutative rings and representation theory meeting, Oberwolfach, Germany

1994

Algebra seminar, University of Limburg, Belgium

Algebra seminar, University of Antwerp, UIA

Algebra seminar, University of Munich (two lectures)

Colloquium, Temple University, Philadelphia

1995

AMS Special Session, San Francisco

AMS Special Session, Chicago

UScience Days Algebra Meeting, Antwerp, Belgium

Mini-course (3 lectures), University of Ferrara, Italy

EEC Workshop on Quantum Groups, Enveloping Algebras, and Representation Theory,
University of Ferrara, Italy

Hour address, Joint Meeting of the AMS and the Israel Math Union, Jerusalem, Israel

Martindale Retirement Meeting, CSU Northridge

Special Session, AMS Joint Meeting with the Sociedad Matematica Mexicana (SMM)

Guanajuato, Mexico

1996

Algebra Seminar, University of Munich

Quantum groups seminar, University of Leipzig, Germany

Seminaire de Algebre, Institut Henri Poincare, University of Paris VI

University of California Lie Theory meeting, UC Santa Cruz.

Mini-course ("Vortragsreihe"), University of Munich (10 lectures)

Joint Colloquium, University of Munich and Technical University Munich

1997

Colloquium, Virginia Tech

Conference on Non-commutative Projective Geometry and Ring Theory, U. of Washing-
ton, Seattle.

AMS-IMS-SIAM Joint Summer Research Conference on Representation Theory of Finite-
dimensional Algebras, Seattle

Meeting on Noetherian Rings and Representation Theory, Oberwolfach, Germany

AMS-SMM Invited Hour Address, Annual Meeting of the Sociedad Matematica Mexi-
cana, Aguas Calientes, Mexico.

1998

Colloquium, CSU San Bernardino

AMS Special Session, Philadelphia

EU Conference on Hopf Algebras and Quantum Groups, Free University of Brussels, Belgium.

AMS Special Session, Winston-Salem, NC

Algebra Seminar, Virginia Tech

1999

Colloquium, Yale University

Algebra Seminar, Yale University

AMS-SMM (Sociedad Matematica Mexicana) Special Session, Denton, Texas

Algebra Seminar, University of Munich

LMS Symposium on Quantum Groups, Durham, England

Three hour lectures, 1999 AMS Von Neumann Symposium on Arithmetic Fundamental Groups and Non-commutative Algebra, MSRI, Berkeley

Colloquium, UC Berkeley

Lie groups seminar, UC Berkeley

2000

Hopf algebras seminar, MSRI, Berkeley

Two algebra seminars and one colloquium, UNAM branch in Morelia, Mexico.

Three hour lectures, NATO Workshop on Algebra and Representation Theory, Constanta, Romania

EU Conference on Rings, Modules, and Representations, Constanta, Romania

Conference on Lie algebras in honor of Marshall Osborn, U. Wisconsin, Madison

2001

Atlantic Association for Research in the Mathematical Sciences (=AARMS) Conference on Groups, Rings, Lie, and Hopf Algebras, Memorial University, St. Johns, Newfoundland, Canada; two lectures, one an ordinary lecture and the other the AARMS Lecture.

Algebra Seminar, University of Munich

Colloquio Latinoamericano de Algebra, Cordoba, Argentina

2002

Hopf Algebras Meeting, De Paul University

Algebra Seminar, Yale University

Non-commutative Algebra meeting in Oberwolfach, Germany

EU conference on Hopf Algebras and Quantum Groups, Brussels, Belgium

2003

AMS Special Session on Non-commutative Algebra, Baltimore, January

Algebra Seminar, University of Michigan, Ann Arbor.

Conference on Interactions between Representation Theories, Knot Theory, Topology, Quantum Field theory, Category theory, and Mathematical Physics, SUNY Potsdam; two lectures (one general, one more specialized).

Latin American Algebra Conference (meets every two years), Cocoyoc, Mexico.

2004

Colloquium, Claremont Colleges, January.

Program on Non-commutative Geometry, Institute Mittag-Leffler, Stockholm, Sweden, March; two lectures (one general, one more specialized).

Joint Colloquium, Chalmers University and University of Gothenburg, Sweden, April.

Special Session on Hopf Algebras and Related Topics, Summer Meeting of the Canadian Math Society, Halifax, Nova Scotia, Canada, June .

Workshop on Non-Commutative Algebra and its Applications, University of Warwick, Coventry, UK, July.

Colloquium, CSU Dominguez Hills, September

Joint Algebra Seminar, DePaul University and University of Illinois at Chicago, October

Algebra Seminar, UCSD, La Jolla, November

2005

AMS Invited Hour Address, AMS Sectional Meeting, Bowling Green, Kentucky, March
University of California Lie Theory Meeting, UC Santa Cruz, April

Algebra Meeting in honor of D. S. Passman's 65th Birthday, Madison, Wisconsin, June

XVI Colloquio Latinamericano de Algebra, Colonia, Uruguay, August

Lie Groups Seminar, University of Cordoba, Argentina, August

PIMS Meeting on Non-commutative Algebraic Geometry, Banff, Canada, September

Colloquium, UCSD, La Jolla, November

2006

Algebra Meeting in honor of L. W. Small's 65th Birthday, UC San Diego, February

Meeting on the interaction of non-commutative algebra and algebraic geometry, Oberwolfach, Germany, May

Representation Theory Seminar, Weizmann Institute, Israel, June

Algebra Meeting in Memory of S. A. Amitsur, Bar-Ilan University, Israel, June

Ring Theory Seminar, Bar-Ilan University, Israel, June

2007

Hopf Algebras Seminar (Oberseminar Schneider), University of Munich, May

International Algebra Meeting, Beijing Technical University, Beijing, China, July

Algebra Seminar, Fudan University, Shanghai, China, July

Algebra Seminar, Michigan State University, East Lansing, October

PUBLICATIONS

Books

1. *Selected Papers on Algebra* (co-chair of editorial committee), Raymond W. Brink Selected Mathematical Papers, Vol. 3, Mathematical Association of America, Washington D. C. 1977.
2. *Fixed Rings of Finite Automorphism Groups of Associative Rings*, Lecture Notes in Mathematics, Vol. 818, Springer-Verlag, New York 1980 (126 pages).
3. *Group Actions on Rings* (editor), Proceedings of Joint Summer Research Conference, Contemporary Mathematics, Vol. 43, American Math Society, Providence 1985.
4. *Non-Commutative Rings* (co-editor with L. W. Small), MSRI Publications vol. 24, Springer-Verlag, New York 1992.

5. *Hopf Algebras and Their Actions on Rings*, CBMS Lecture Notes Vol. 82, American Math Society, Providence 1993 (238 pages)
6. *Advances in Hopf Algebras* (co-editor with Jeffrey Bergen), Lecture Notes in Pure and Applied Mathematics vol. 158, Marcel Dekker, New York, 1994.
7. *New Directions in Hopf Algebras* (co-editor with H.-J. Schneider), MSRI Publications vol. 43, Cambridge University Press, 2002.

Papers

1. Left and right inverses in group algebras, *AMS Bulletin* 75 (1969), 539-540.
2. Lie structure of simple rings of characteristic 2, *J. of Algebra* 15 (1970), 387-407.
3. A note on division rings with involution, (with I. N. Herstein), *Michigan Math. J.* 18 (1971), 75-79.
4. Polynomial identity algebras with involution, *AMS Proceedings* 27 (1971), 53-56.
5. A generalization of a theorem of Jacobson, *AMS Proceedings* 31 (1971), 366-370.
6. The prime radical in special Jordan rings, (with T. S. Erickson). *AMS Transactions* 156 (1971), 155-164.
7. Algebraic algebras with involution, *AMS Proceedings* 31 (1972), 368-372.
8. Lie structure of prime rings of characteristic 2, (with C. Lanski), *Pacific J. Math.* 42 (1972), 117-136.
9. A generalization of a theorem of Jacobson II, *Pacific J. Math.* 43 (1973), 233-240.
10. Invertible and regular elements in rings with involution (with I. N. Herstein), *J. of Algebra* 25 (1973), 390-400.
11. Rings with involution in which every trace is nilpotent or regular, *Canadian J. Math.* 26 (1974), 130-137.
12. Rings of quotients for a class of special Jordan rings, *J. of Algebra* 31 (1974), 154-165.
13. Chain conditions on symmetric elements, *AMS Proceedings* 46 (1974), 325-331.
14. Centralizers satisfying polynomial identities, *Israel J. Math.* 18 (1974), 207-219.
15. Algebras with a separable subalgebra whose centralizer satisfies a polynomial identity (with M. Smith), *Communications in Algebra* 3 (1975), 151-168.
16. Centralizers of separable subalgebras, *Michigan Math. J.* 22 (1975), 15-24.
17. Structure of a certain class of rings with involution (with M. Chacron and I. N. Herstein), *Canadian J. Math.* 27 (1975), 1114-1126.

18. Semi-simple Artinian rings of fixed points (with M. Cohen), *Canadian Math. Bulletin* 18 (1975), 189-190.
19. The Jacobson radical and fixed rings of automorphisms, *Comm. in Algebra* 4 (1976), 459-465.
20. A structure theorem and a positive-definiteness condition in rings with involution, *J. of Algebra* 43 (1976), 181-192.
21. Fixed elements of Jordan automorphisms of associative rings, (with W. S. Martindale, III), *Pacific J. Math.* 72 (1977), 181-196.
22. Invariant subgroups of rings with involution, *Canadian J. Math.* 30 (1978), 350-357.
23. Outer automorphisms of semi-prime rings, *London Math. Soc. Journal* 18 (1978), 209-220.
24. Semiprime skew group rings" (with J.W. Fisher), *J. of Algebra* 52 (1978), 241-247.
25. Crossed products over prime rings (with D. S. Passman), *Israel J. Math.* 31 (1978), 224-256.
26. Automorphism groups of rings with no nilpotent elements, *J. of Algebra* 60 (1979), 238-248.
27. The normal closure of a semiprime ring (with M. Cohen), in *Ring Theory: Proceedings of the 1978 Antwerp Conference*, Marcel Dekker Lecture Notes in Mathematics 51 (1979), 43-59.
28. Trace functions for finite automorphism groups of rings (with M. Cohen), *Archiv der Mathematik* 35 (1980), 516-527.
29. Fixed rings in Noetherian rings (with L.W. Small), *London Math. Soc. Bulletin* 13 (1981), 33-38.
30. Prime ideals in fixed rings, *Comm. in Algebra* 9 (1981), 423-449.
31. The normal closure of coproducts of domains, (with W. S. Martindale), *J. of Algebra* 82 (1983), 1-17
32. X-inner automorphisms of group rings, (with D. S. Passman), *Houston J. Math.* 7 (1981), 395-402.
33. X-inner automorphisms of filtered algebras, *AMS Proceedings* 83 (1981), 263-268.
34. Prime ideals in fixed rings II (with M. Lorenz and L. W. Small), *Comm. in Algebra*, 10 (1982), 449-455.
35. Trace-like functions on rings with no nilpotent elements (with M. Cohen), *AMS Transactions* 273 (1982), 131-145.

36. X-inner automorphisms of group rings II, (with D. S. Passman), *Houston J. Math.* 8 (1982), 537-544.
37. Trace functions and affine fixed rings for groups acting on non-commutative rings, *Seminaire d'Algebra Paul Dubreil et Marie-Paule Malliavin*, Lecture Notes in Mathematics 924, Springer-Verlag (1982), 356-374.
38. von Neumann finiteness of tensor products of algebras, *Comm. in Algebra* 11 (1983), 595-610.
39. X-inner automorphisms of filtered algebras II, *AMS Proceedings* 87 (1983), 569-575.
40. Galois theory of prime rings, (with D. S. Passman), E. Noether 100th Birthday issue, *J. Pure and Applied Algebra* 31 (1984), 139-184.
41. Integrality and prime ideals in fixed rings of PI rings, (with L. W. Small), E. Noether 100th Birthday issue, *J. Pure and Applied Algebra* 31 (1984), 185-190.
42. Outer Galois theory of prime rings, (with D. S. Passman), *Rocky Mountain J. Math.* 14 (1984), 305-318.
43. Group graded rings, smash products, and group actions, (with M. Cohen), *AMS Transactions* 282 (1984), 237-258; Addendum 300 (1987), 810-811.
44. A duality theorem for Hopf module algebras, (with R. J. Blattner), *J. of Algebra* 95 (1985), 153-172.
45. Group actions on rings: some classical problems, in *Methods in Ring Theory*, F. van Oystaeyen, editor, NATO Advanced Study Institute in Ring Theory, Antwerp 1983, NATO ASI Series C, Vol. 129, Reidel (1984), 327-346 .
46. Invariants of finite cyclic groups acting on generic matrices, (with J. W. Fisher), *J. of Algebra* 99 (1986), 430-437.
47. Smash products and outer derivations, (with J. Bergen), *Israel J. of Math.* 53 (1986), 321 - 345.
48. Duality for actions and coactions of groups, in *Group Actions on Rings*, AMS Contemporary Math, vol. 43 (1985), 191-207.
49. Some remarks on affine rings (with L. W. Small), *AMS Proceedings*, 98 (1986), 537-544.
50. X-inner automorphisms of crossed products and semi-invariants of Hopf algebras (with D. S. Passman), *Israel J. Math.* 55 (1986), 33-57.
51. Crossed products and inner actions of Hopf algebras (with M. Cohen and R. J. Blattner), *AMS Transactions* 298 (1986), 671-711.
52. Radicals of crossed products of enveloping algebra (with J. Bergen and D.S. Passman), *Israel J. of Math.* 59 (1987), 167-184.

53. Prime ideals in fixed rings of free algebras (with D.S. Passman), *Comm. in Algebra*, 15 (1987), 2209-2234.
54. Algebraic analogs of the Connes spectrum (with D. S. Passman), *J. of Algebra* 115 (1988) 92-124.
55. Prime ideals and group actions in non-commutative algebras, in *Invariant Theory*, AMS Contemporary Math. 88 (1989), 103-124.
56. Crossed products of Hopf algebras and enveloping algebras, in *Perspectives in Ring Theory*, Proceedings of NATO Workshop, Antwerp 1987, NATO ASI Series C, Vol. 233 Kluwer (1988), 253-268.
57. Progress on some problems about group actions, in *Perspectives in Ring Theory*, NATO ASI Series C, Vol 233, Kluwer, Dordrecht (1988), 269-274.
58. Crossed products and Galois extensions of Hopf algebras (with R. J. Blattner), *Pacific J. Math*, 137 (1989), 37-54.
59. Normalizing elements of the trace ring of generic matrices, (with R. Guralnick), *Comm. in Algebra* 27 (1989), 1805-1813.
60. A generalized Picard group for prime rings, in *Topics in Algebra*, Proceedings of the Algebra Semester 1988, Banach Center Publications Vol. 26, Part I, PWA - Polish Scientific Publishers, Warsaw 1990, 55-63.
61. Inner actions of Hopf algebras, in *Ring Theory 1989* (in honor of S. A. Amitsur), Israel Math. Conference Proceedings, Weizmann Science Press, 1989, pp 141-149.
62. Skew derivations and $U_q(sl(2))$, (with S. Paul Smith), *Israel J. Math* 72 (1990), 158-166.
63. Hopf Galois extensions, smash products, and Morita equivalence (with M. Cohen and D. Fischman), *J. of Algebra* 133 (1990), 351-372.
64. Book review of: Infinite Crossed Products, by D. S. Passman, *AMS Bulletin* 24 (1991), 391-402.
65. Hopf Galois extensions, in *Azumaya Algebras, Actions, and Modules*, AMS Contemporary Math, Vol. 124, 1992, 129-140.
66. Ideals and quotients in crossed products of Hopf algebras (with J. Bergen), *J. Algebra* 155 (1992), 374-396.
67. Biinvertible actions of Hopf algebras, *Israel J. of Math* 83 (1993), 45-71.
68. Some remarks on filtrations of Hopf algebras, *Comm. in Algebra* 21 (1993), 999-1007.
69. On invertible bimodules and automorphisms of non-commutative rings (with R. M. Guralnick), *AMS Transactions* 341 (1994), 917-937.

70. A Schur double centralizer theorem for cotriangular Hopf algebras and generalized Lie algebras (with D. Fischman), *J. Algebra* 168 (1994), 594-614.
71. Indecomposable coalgebras, simple comodules, and pointed Hopf algebras, *AMS Proceedings* 123 (1995), 2343-2351.
72. Hopf crossed products, rings of quotients and prime ideals (with H.-J. Schneider), *Advances in Math* 112 (1995), 1-55.
73. On the generalized Lie structure of associative algebras (with Y. Bahturin and D. Fischman), *Israel J. of Math.* 96 (1996), 27-48.
74. Basic coalgebras (with W. Chin), in *Modular Interfaces: Modular Lie algebras, Quantum groups, and Lie superalgebras*, V. Chari and I. Penkov, editors, AMS-International Press, vol 4, 1997, pp 41-47.
75. Frobenius extensions of subalgebras of Hopf algebras (with D. Fischman and H.-J. Schneider), *AMS Transactions* 349 (1997), 4857 - 4895.
76. Nil subsets of graded algebras (with L. W. Small), *AMS Proceedings* 126 (1998), 653-656.
77. Irreducible representations of crossed products (with S. Witherspoon), *J. Pure and Applied Algebra* 129 (1998), 315-326.
78. Constructing simple Lie superalgebras from associative graded algebras, *J. of Algebra* 195 (1997), 558 - 579.
79. Classifying finite-dimensional semisimple Hopf algebras, in *Trends in the Representation Theory of Finite-Dimensional Algebras*, E. Green and B. Zimmermann-Huisgen, editors, AMS Contemporary Math. vol 229 (1998), 265-279.
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