

## David M. Bressoud

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### Degrees:

- PhD, Mathematics, Temple University, 1977; doctoral advisor: Emil Grosswald
- MA, Mathematics, Temple University, 1975;
- BA, Mathematics, Swarthmore College, 1971

### Professional Appointments:

#### Macalester College:

- DeWitt Wallace Professor of Mathematics, August, 1996 to present;
- Chair of the Department of Mathematics and Computer Science, 1995–2001;
- Professor in Mathematics and Computer Science, 1994–1996.

#### The Pennsylvania State University, University Park:

- Professor of Mathematics, 1986–1994;
- Associate Professor, 1982–86;
- Assistant Professor, 1977–82.

**Peace Corps Volunteer**, Antigua, West Indies (first and second form math and science teacher at the Clare Hall School), 1971–73.

### Visiting Positions

- University of Minnesota (1998 and 1983)
- State College Area High School (1990–91), taught Advanced Placement AB Calculus course
- University of Strasbourg (1985–86),
- University of Wisconsin (1980–81 & '82),
- Institute for Advanced Study (1979–80).

### Awards and Fellowships

- Macalester College Thomas Jefferson Award, 2005
- MAA Pólya Lecturer, 2002–04
- MAA Beckenbach Book Prize for *Proofs and Confirmations*, 2000
- MAA Allegheny Mountain Section Distinguished Teaching Award, 1994
- Fulbright Fellowship, 1985–86
- Sloan Foundation Fellowship, 1981–83
- Member, Institute for Advanced Study, 1979–80

### Professional Activities:

#### Current:

- Past-President, Mathematical Association of America (MAA) (2011–12)
- Chair, MAA Nominating Committee (2011–13)

- member, Steering Committee of the Conference Board of the Mathematical Sciences (2009–2012)
- member, Macalester Personnel Committee (2011–2013)
- associate editor for *The Ramanujan Journal*
- associate editor for *Annales des Sciences Mathématiques du Québec*
- associate editor for *The Fibonacci Quarterly*
- member, editorial board, *MAA Focus*

#### Former:

- President, MAA (2009–11)
- MAA Student Lecturer, 1994 *MathFest*
- member-at-large, Council of the AMS (1996–99)
- member, AMS Committee on Education (1996–99)
- chair of the Pólya Award Committee (1997–99)
- chair of the MAA Program Committee for the 1998 Joint Math Meetings
- member of the ad hoc *Mathematics Magazine* Study Committee (1998)
- member and chair of the Pólya Lecturer selection committee (1998–2000)
- AMS Committee on Education liaison to the CUPM (1999–2002)
- member and chair, AMS *Student Mathematical Library* series, 1999–2004
- chair of the ad hoc Committee to Study the *Monthly* (2000)
- member, CUPM Writing Committee for the *CUPM Curriculum Guide 2004* (2002–04)
- chair, College Board Advanced Placement Calculus Development Committee (2002–05), member (1999–2005)
- question leader for Advanced Placement Calculus Reading, 2000–05; table leader 1997–99; reader from 1993–1996
- Director, Macalester's program in *Quantitative Methods for Public Policy*, 2002–07
- chair, SIGMAA TAHSM (MAA special interest group, Teaching Advanced High School Mathematics), (2007–08)
- chair, MAA Strategic Planning Group on STEM Issues and the Mathematics Program (2008–2009)
- member Pólya Lecturer Selection Committee (2007–2009)
- member of the editorial committee for MAA *Carus Mathematical Monograph* series (2007–2009)

#### External Grants

- Principle Investigator, *Characteristics of Successful Programs in College Calculus* (2009–2014), NSF DRL REESE grant #0910240, \$2 million
- Principle Investigator, *Quantitative Methods for Public Policy* (2002–2005), US Department of Education FIPSE grant. \$348,818
- Principle Investigator, *Quantitative Methods for Public Policy* (2002–2005), National Science Foundation DUE-CCLI grant #0229967. \$29,992.
- Principal Investigator. *Studies in Partition Theory* (1992–93). National Security Agency grant no. MDA904-92-H-3043. \$14,395
- Principal Investigator. *Hans Rademacher Commemorative Conference*. 1992. National Security Agency. \$10,000
- Principal Investigator. *Enumerative Combinatorics and Mock Theta Functions* (1990–92). National Security Agency grant no. MDA904-90-H-1010. \$88,786
- Principal Investigator. *Enumerative Combinatorics and Mock Theta Functions* (1988–90). National Security Agency grant no. MDA904-88-H-2017. \$17,294

- Principal Investigator, *Mathematical Sciences: Enumerative Combinatorics and Special Functions* (1986–88). NSF grant no. DMS-8521580. \$36,200.
- Principal Investigator. *Mathematical Sciences: Number Theory, Combinatorics, and Representation Theory*. (1984–86). NSF grant no. MCS-8404083. \$113,000.
- Principal Investigator. *Analytic, Algebraic, and Combinatorial Number Theory*. (1981–84). NSF grant no. MCS-8101943. \$78,403.

## Books and DVDs

1. David M. Bressoud. 2008. *A Radical Approach to Lebesgue's Theory of Integration*. Cambridge University Press, Cambridge.
2. David M. Bressoud. 2008. *The Queen of the Sciences: A History of Mathematics*. Set of 24 lectures on DVDs. *The Great Courses*. Chantilly, VA.
3. David M. Bressoud. 2007. *A Radical Approach to Real Analysis, 2<sup>nd</sup> edition*. The Mathematical Association of America, Washington, DC.
4. Barker, W., D. Bressoud, S. Epp, S. Ganter, W. Haver, H. Pollatsek. 2004. *Undergraduate Programs and Courses in the Mathematical Sciences: CUPM Curriculum Guide 2004*. The Mathematical Association of America: Washington, DC.
5. D. Bressoud and S. Wagon, 2000. *A Course in Computational Number Theory*. Key College Press: New York, NY.
6. David M. Bressoud. 1999. *Proofs and Confirmations: The story of the alternating sign matrix conjecture*. Cambridge University Press: Cambridge.
7. David M. Bressoud. 1994. *A Radical approach to Real Analysis*. The Mathematical Association of America: Washington, DC.
8. David M. Bressoud. 1992. *Second Year Calculus from Celestial Mechanics to Special Relativity*. Springer-Verla: New York, NY
9. David M. Bressoud. 1989. *Factorization and Primality Testing*. Springer-Verlag: New York, NY.
10. David M. Bressoud. 1980. *Analytic and combinatorial generalizations of the Rogers-Ramanujan identities*. *Memoirs of the AMS* no 227.

## Edited Volumes

1. Guest editor. *Advances in Applied Mathematics*. Special issue dedicated to Dr. David P. Robbins. Vol 34, no. 4, May 2005.
2. G. Andrews, D. Bressoud, and L. A. Parson, eds. 1994. *The Rademacher Legacy to Mathematics: The Centenary Conference in Honor of Hans Rademacher July 21–25, 1992*. The American Mathematical Society: Providence, RI.

## Refereed Publications

1. **David M. Bressoud. 2011. Historical Reflections on Teaching the Fundamental Theorem of Integral Calculus. *The American Mathematical Monthly*. vol. 118, #2, 99–115.**
2. **David M. Bressoud. 2011. The Art of Counting. Pages 201–214 in *Expeditions in Mathematics*. Shubin, Hayes, and Alexanderson, eds. *MAA Spectrum*. The Mathematical Association of America: Washington, DC.**

3. **David M. Bressoud. 2010. Combinatory Analysis. Pages 617–636 in *NIST Handbook of Mathematical Functions*, Olver, Lozier, Boisvert, and Clark, eds. National Institute of Standards and Technology and Cambridge University Press.**
4. David M. Bressoud. 2010. Historical Reflections on Teaching Trigonometry. *The Mathematics Teacher*. Vol. 104, #2, 106–112.
5. David M. Bressoud. 2009. Establishing the Quantitative Thinking Program at Macalester. *Numeracy: Advancing Education in Quantitative Literacy*. Vol 2, no. 1, 13 pages. URL: [services.bepress.com/numeracy](http://services.bepress.com/numeracy)
6. David M. Bressoud. 2008. Exploiting Symmetries: Alternating Sign Matrices and the Weyl Character Formulas. Pages 43–55 in *Surveys in Number Theory*. Alladi, ed. Series: *Developments in Mathematics*, vol 17. Springer-Verlag:New York, NY.
7. David M. Bressoud. 2006. Quantitative Methods for Public Policy. Pages 23–28 in *Current Practices in Quantitative Literacy*, MAA Notes #70. Rick Gillman, ed. The Mathematical Association of America, Washington, DC.
8. David Bressoud and Joy Laine. 2004. Parallel Developments in Philosophy and Mathematics in India. Pages 133–166 in *UMAP ILAP Modules 2003–04: Tools for Teaching*. COMAP (the Consortium for Mathematics and Its Applications: Boston, MA.
9. David M. Bressoud. 2002. Was Calculus Invented in India? *College Math Journal*. Vol 33, pages 2–13.
10. David M. Bressoud. 2001. Three alternating sign matrix identities in search of bijective proofs. *Advances in Applied Mathematics*. Vol. 27, pages 289–297.
11. David M. Bressoud. 2001. What's been happening to undergraduate mathematics. *Chemical Education Today*. Vol. 78, pages 578–581.
12. Bressoud, David M., M.E.H. Ismail and D. Stanton. 2000. Change of base in Bailey pairs. *Ramanujan Journal*. Vol. 4, pages 435–453.
13. David M. Bressoud. 2000. Elementary proofs of identities for Schur functions and plane partitions. *The Ramanujan Journal*. Vol 4, pages 69–80.
14. Bressoud, D., J. P. O. Santos, and P. Mondek. 2000. A Family of partition identities proved combinatorially. *The Ramanujan Journal*. Vol 4, pages 311–315.
15. David M. Bressoud. 1998. Elementary proof of Macmahon's conjecture. *J. Algebraic Combinatorics*. Vol 7, no. 3, pages 253–257.
16. David M. Bressoud. 1996. The Borwein conjecture and partitions with prescribed hook difference. Research paper #4 in *The Foata Festschrift. Electronic J. of Combinatorics* vol 3, 14 pages.
17. Bressoud, D. and S.-Y. Wei. 1993. Combinatorial equivalence of definitions of the Schur function. Pages 59–64 in *A Tribute to Emil Grosswald: Number theory and related analysis. Contemporary Mathematics* vol 143. American Mathematical Society: Providence, RI.
18. David M. Bressoud. 1992. Why do we teach calculus? *American Mathematical Monthly*. Vol. 99, no. 7, pages 615–617.
19. Bressoud, D. and S.-Y. Wei. 1992 Determinantal formulae for complete symmetric functions. *J. Combinatorial Theory, A*. vol. 60, no. 2, pages 277–286.
20. David M. Bressoud. 1992. Unimodality of Gaussian polynomials. *Discrete Mathematics*. Vol 99, no. 1–3, pages 17–24.
21. David M. Bressoud. 1991. On a cyclotomic unit and related products. *J. Number Theory*. Vol 38, no 1, pages 110–117.
22. David M. Bressoud. 1989. On the proof of Andrews'  $q$ -Dyson conjecture. Pages 31–39 in *Number Theory and Related Topics (Bombay, 1988)s*. Tata Institute of Fundamental Research: Bombay..

23. David M. Bressoud. 1989. Some directions for multiple hypergeometric series. Pages 97–115 in *Ramanujan International Symposium on Analysis (Pune, 1987)*. Macmillan of India: New Delhi.
24. David M. Bressoud and Doron Zeilberger. 1989. Generalized Rogers-Ramanujan bijections. *Advances in Mathematics*. Vol 78, no 1, pages 42–75.
25. David M. Bressoud. 1989. In the land of OZ. pages 45–55 in *q-series and partitions (Minneapolis, MN, 1988)*. *The IMA Volumes in Mathematics and its Application*. Vol 18. Springer-Verlag: New York, NY
26. David M. Bressoud. 1989. Lattice paths and the Rogers-Ramanujan identities. Pages 140–172 in *Number theory, Madras 1987. Lecture Notes in Mathematics*. Vol 1395. Springer-Verlag: Berlin.
27. David M. Bressoud and A. K. Agarwal. 1989. Lattice paths and multiple basic hypergeometric series. *Pacific J. Mathematics*. Vol 136, no. 2 pages 209–228.
28. David M. Bressoud. 1989. Problems on the Z-statistic. Pages 37–48 in *Proceedings of the Oberwolfach Meeting "Kombinatorik" (1986)*. *Discrete Mathematics*. Vol 73, no. 1–2, pages 37–48.
29. David M. Bressoud. 1988. The Bailey lattice: an introduction. Pages 57–67 in *Ramanujan revisited (Urbana-Champaign, Ill., 1987)*. *Academic Press: Boston, MA*.
30. A. K. Agarwal, G. E. Andrews, and D. M. Bressoud. 1988. The Bailey Lattice. *J. Indian Mathematical Society (N.S.)*, vol 51, pages 57–73.
31. David M. Bressoud. 1988. Almost poised basic hypergeometric series. *Indian Academy of Sciences. Proceedings. Mathematical Sciences*. vol 97, no. 1–3, 61–66
32. G. E. Andrews, R. J. Baxter, D. M. Bressoud, W. H. Burge, P. J. Forrester, G. Viennot. 1987. Partitions with prescribed hook differences. *European Journal of Combinatorics*. Vol 8, no. 4, pages 341–350.
33. David M. Bressoud. 1987. Colored tournaments and Weyl's denominator formula. *European Journal of Combinatorics*. Vol 8, no. 3, pages 245–255.
34. David M. Bressoud and I. P. Goulden. 1987. The generalized plasma in one dimension: evaluation of a partition function. *Communications in Mathematical Physics*. Vol 110, no. 2, pages 287–291.
35. David M. Bressoud. 1986. Definite integral evaluation by enumeration, partial results in the Macdonald conjectures. Pages 48–57 in *Combinatoire énumérative (Montreal, Que., 1985/Quebec, Que., 1985)*. *Lecture Notes in Mathematics*. Vol 1234. Springer-Verlag: Berlin.
36. David M. Bressoud. 1986. Hecke modular forms and  $q$ -Hermite polynomials. *Illinois J. of Mathematics*. Vol 30, no. 1, pages 185–196.
37. George E. Andrews and David M. Bressoud. 1985. On the Burge correspondence between partitions and binary words. *Rocky Mountain J. of Mathematics*. Vol 15, no. 2, pages 225–233,
38. David M. Bressoud and I. P. Goudlen. 1985. Constant term identities extending the  $q$ -Dyson theorem. *Transactions of the AMS*. Vol 291, no. 1, pages 203–228.
39. Doron Zeilberger and David M. Bressoud. 1985. A proof of Andrews'  $q$ -Dyson conjecture. *Discrete Mathematics*. Vol 54, no. 2, pages 201–224.
40. David M. Bressoud and Doron Zeilberger. 1985. Bijection Euler's partitions-recurrence. *American Mathematical Monthly*. Vol 92, no. 1, pages 54–55.
41. George E. Andrews and David M. Bressoud. 1984. Identities in combinatorics. III. Further aspects of ordered set sorting. *Discrete Mathematics*. Vol 49, no 3, pages 223–236.
42. David M. Bressoud and M. V. Subbarao. 1984. On Uchimura's connection between partitions and the number of divisors. *Canadian Mathematical Bulletin*. Vol 27, no. 2, pages 143–145.

43. David M. Bressoud. 1983. An easy proof of the Rogers-Ramanujan identities. *J. Number Theory*. Vol 16, no. 2, pages 235–241.
44. David M. Bressoud. 1983. A Matrix inverse. *Proceedings of the AMS*. Vol 88, no. 3, pages 235–241.
45. David M. Bressoud. 1983. Variation on a partition theorem of Schur. *Ars Combinatoria*. Vol 15, pages 267–273.
46. David M. Bressoud and Doron Zeilberger. 1982. A short Rogers-Ramanujan bijection. *Discrete Mathematics*. Vol 38, no. 2–3, pages 313–315.
47. David M. Bressoud. 1981. Theta function identities and orthogonal polynomials. Pages 325–332 in *Analytic number theory (Philadelphia, Pa., 1980)*. *Lecture Notes in Mathematics* vol 899. Springer-Verlag: New York, NY
48. David M. Bressoud. 1981. On partitions, orthogonal polynomials and the expansion of certain infinite products. *Proceedings of the London Mathematical Society (3)*. Vol 42, no. 3, pages 478–500.
49. David M. Bressoud. 1981. Some identities for terminating  $q$ -series. *Mathematical Proceedings of the Cambridge Philosophical Society*. Vol 89, no. 2, pages 211–223.
50. David M. Bressoud. 1981. Linearization and related formulas for  $q$ -ultraspherical polynomials. *SIAM J. of Mathematical Analysis*. Vol 12, no. 2, pages 161–168.
51. David M. Bressoud. 1981. On the value of Gaussian sums. *J. Number Theory*. Vol 13, no. 1, pages 88–94.
52. David M. Bressoud. 1980. An analytic generalization of the Rogers-Ramanujan identities with interpretation. *Quarterly Journal of Mathematics Oxford, Series 2*, vol 31, no 124, pages 385–399.
53. David M. Bressoud. 1980. Extension of the partition sieve. *J. Number Theory*. Vol 12, no 1, pages 87–100.
54. David M. Bressoud. 1980. A note on gap-frequency partitions. *Pacific J. of Mathematics*. Vol 89, no 1, pages 1–6.
55. David M. Bressoud. 1980. A simple proof of Mehler's formula for  $q$ -Hermite polynomials. *Indiana University Mathematics J.* vol 29, no 4, pages 577–580.
56. David M. Bressoud. 1980. A combinatorial proof of Schur's 1926 partition theorem. *Proceedings of the AMS*. Vol 79, no 4, pages 577–580.
57. George E. Andrews and David M. Bressoud. 1979. Vanishing coefficients in infinite product expansions. *J. of the Australian Mathematical Society, Series A.* vol 27, no 2, pages 199–202.
58. David M. Bressoud. 1979. A generalization of the Rogers-Ramanujan identities for all moduli. *J. Combinatorial Theory, Series A.* vol 27, no 1, pages 64–68.
59. David M. Bressoud. 1979. On a partition theorem of Göllnitz. *Journal für die Reine und Angewandte Mathematik*. Vol 305, pages 215–217.
60. David M. Bressoud. 1978. A new family of partition identities. *Pacific J. of Mathematics*. Vol 77, no 1, pages 71–74.
61. David M. Bressoud. 1978. Applications of Andrews' basic Lauricella transformation. *Proceedings of the AMS*. Vol 72, no 1, pages 89–94.
62. David M. Bressoud. 1977. Some identities involving Rogers-Ramanujan-type functions. *J. London Mathematical Society (2)*. Vol 16, no 1, pages 9–18.

### **Columns, book reviews, and other non-refereed pieces**

1. Since February 2005 I have written a monthly online column, *Launchings*, for the MAA on education issues. It is at <http://www.maa.org/columns/index.html>

The 2011 columns were

- January: Mathematics & Democracy + 10**
  - February: Status of the Math-Intensive Majors**
  - March: The End of Algebra?**
  - April: Before Congress in Support of NSF**
  - May: The Calculus I Student**
  - June: The Calculus I Instructor**
  - July: The Worst Way to Teach**
  - August: The Best Way to Learn**
  - September: The Greatest Problems Facing Math Departments**
  - October: Quantitative Literacy versus Mathematics**
  - November: Good News from CBMS**
  - December: Faculty Trends from CBMS**
2. From January 2009 through December 2010, I wrote President's columns for *MAA Focus*, the newsletter of the Mathematical Association of America. These columns were
    - Dec/Jan 2010–11, Challenges and Opportunities
    - Oct/Nov 2010, Changes to the Nomination Process
    - Aug/Sept 2010, Looking Toward the Future
    - June/July 2010, New MAA Bylaws
    - April/May 2010, MAA Calculus Survey
    - Feb/Mar 2010, Meeting the Challenge of High School Calculus
    - Dec/Jan 2009–10, MAA Speaks Out on Capitol Hill
    - Oct/Nov 2009, MAA Strategic Planning Around STEM Issues
    - Aug/Sept 2009, MAA to Probe Calculus I
    - June/July 2009, Technology in Support of the Classroom
    - April/May 2009, Mind the Gap
    - Feb/Mar 2009, Launching into the Next Two Years
  3. David M. Bressoud. 2010. The Rocky Transition from High-School Calculus. *Chronicle of Higher Education*. January 17.
  4. David M. Bressoud. 2009. Is the Sky Still Falling? *Notices of the AMS*. Vol 56, no. 1, 20–25
  5. Review of *Optimization: Insights and Applications*. 2007. *The Journal of Undergraduate Mathematics and Its Applications*. Vol 28, no. 4, page 568.
  6. The Dangers of Dual Enrollment. 2007. *MAA Focus*. vol. 27, no. 9, pages 4–6.
  7. Review of *Making Transcendence Transparent*. 2007. *American Mathematical Monthly*. Vol. 114, no. 5, pages 459–461.
  8. Review of *Ramanujan's Lost Notebook*. 2006. *Bulletin of the AMS*. Vol. 43, pages 585–591.
  9. Foreword to a new printing of *The Calculus: A Genetic Approach*, by Otto Toeplitz. 2007. University of Chicago Press: Chicago, IL.
  10. Editor's Preface. 2005. *Advances in Applied Mathematics*, special issue dedicated to Dr. David P. Robbins. Vol 34, pages 645–646
  11. Review of *Integer Partitions*. 2005. *SIAM Review*. Vol. 47, pages 812–813.
  12. Review of *Spacetime and Geometry: an introduction to General Relativity and Gravity: an introduction to Einstein's General Relativity*. *The Journal of Undergraduate Mathematics and Its Applications*. Vol 26, pages 475–477.
  13. The Fundamental Theorem of Calculus or Why Do We Name the Integral for Someone who Lived in the Mid-19th Century? 2005. In *AP Calculus workshop Book*. The College Board, New York, NY.
  14. Review of *The Equations: Icons of Knowledge* by Sander Bias. 2005. *MAA Online* ([www.maa.org/reviews/reviews.html](http://www.maa.org/reviews/reviews.html)).

15. Review of *The Pea and the Sun* by Leonard M. Wapner. 2005. *MAA Online* ([www.maa.org/reviews/reviews.html](http://www.maa.org/reviews/reviews.html)).
16. Review of *The Prime Number Theorem* by G.J.O. Jameson. 2005. *MAA Online* ([www.maa.org/reviews/reviews.html](http://www.maa.org/reviews/reviews.html)).
17. Review of *The Road to Reality: A Complete guide to the Laws of the Universe* by Roger Penrose. 2005. *MAA Online* ([www.maa.org/reviews/reviews.html](http://www.maa.org/reviews/reviews.html)).
18. With Lynn Steen, Making Connections To, From, and Within the Mathematical Community. 2004. *What works, what matters, what lasts – Project Kaleidoscope*. URL: [www.pkal.org/template2.cfm?c\\_id=1270](http://www.pkal.org/template2.cfm?c_id=1270)
19. With Lynn Steen, Making Connections To, From, and Within the Mathematical Community. 2004. *MAA Focus*. vol 24, no. 7, pages 22–24.
20. The Changing Face of Calculus: First-Semester Calculus as a High School Course. 2004. *MAA Focus*. vol. 24, no. 7, pages 6–8.
21. The Changing Face of Calculus: First- and Second-Semester Calculus as College Courses. 2004. *MAA Focus*. vol. 24, no. 8, pages 14–16.
22. Review of *Vector Calculus, Linear Algebra, and Differential Forms: A United Approach* by Hubbard & Hubbard. 2003. *The Journal of Undergraduate Mathematics and Its Applications*. Vol 24, page 81.
23. Review of *First Course in Mathematical Modeling* by Giordano, Weir, and Fox and *Elementary Mathematical Modeling* by Sandefur. 2003. *The Journal of Undergraduate Mathematics and Its Applications*. Vol 24, page 79–80.
24. The *Curriculum Foundations* workshop on Chemistry. 2002. *MAA Focus*. vol 22, no. 10.
25. Review of *My Numbers, My Friends* by Paulo Ribenboim. 2002. *The Mathematical Intelligencer*. Vol. 24, pages 73–74.
26. Calculus before Newton and Leibniz II: Archimedes and sums of squares. 2002. *AP Central*. URL: [apcentral.collegeboard.com](http://apcentral.collegeboard.com)
27. Calculus before Newton and Leibniz III; Sums of powers. 2002. *AP Central*. URL: [apcentral.collegeboard.com](http://apcentral.collegeboard.com)
28. Adventures in the Amusement Park: AB2/BC2 from the 2002 AP Calculus Exam. 2002. *AP Central*. URL: [apcentral.collegeboard.com](http://apcentral.collegeboard.com)
29. Review of *A Guided tour of mathematical methods for the physical sciences* by Roel Snieder. *The Journal of Undergraduate Mathematics and Its Applications*. Vol 23.
30. Calculus before Newton and Leibniz. 2001. *AP Central*. URL: [apcentral.collegeboard.com](http://apcentral.collegeboard.com)
31. Computer-Generated Proofs of Mathematical Theorems. 2001. *Encyclopedia of Physical Science and Technology*. 3<sup>rd</sup> edition. Vol. 3, pages 553–560. *Contemporary Mathematics* vol 143. American Mathematical Society: Providence, RI.
32. Bressoud, D. and J. Propp. 1999. How the alternating sign matrix conjecture was solved. *Notices of the AMS*. Vol 46, no. 6, pages 637–646.
33. Review of *Classroom Assessment Techniques*. 1999. *Teaching and Learning Undergraduate Mathematics*.
34. Personal Thoughts on Mature Teaching. 1999. Appendix in *How to teach mathematics: a personal perspective* by Steven Krantz. American Mathematical Society: Providence, RI.
35. The One-minute paper. 1999. In *Assessment Practices in Undergraduate Mathematics*. B. Gold, S. Keith, W. Marion, eds. *MAA Notes* \$49. Mathematical Association of America: Washington, DC.
36. Review of Serge Lang's *Undergraduate Analysis*. 1998. *The Mathematical Intelligencer*, vol 20: pages 76–77.
37. Bressoud, D., M. Knopp, and M. Sheingorn. 1993. In appreciation of Emil Grosswald. Pages 1–8 in *A Tribute to Emil Grosswald: Number theory and related analysis*.

38. Review of *Differential Forms: A complement to vector calculus* by Steven Weintraub, *The UMAP Journal*, 18: 183-183, 1997
39. David Bressoud and Joel Clemmer. Issues in scholarly communication III: The looming responsibilities, *Colloquoy* (Macalester College), vol 13, no. 3, 1996.
40. David Bressoud and Joel Clemmer. Issues in scholarly communication II: The looming opportunities, *Colloquoy* (Macalester College) , vol 13, no. 2 (March 1996): 7–11.
41. David Bressoud and Joel Clemmer. Issues in scholarly communication I: The looming crisis," *Colloquoy* (Macalester College) , vol 12, no. 4 (Fall 1995): 1–6.
42. Assessing Student Performance. 1996. pages 66–73 in *Calculus, The Dynamics of Change*, A. Wayne Roberts, ed., The Mathematical Association of America, Notes Number 39, Washington, DC.
43. Mathematics and the Liberal Arts, *Macalester Today*, November, 1995
44. Review of *How to teach mathematics: a personal perspective* by Steven G. Krantz. 1995. *UME Trends*, vo 7, pages 4–5
45. Review of *A Brief on Tensor Analysis*. 1995. *The UMAP Journal*, vol 16
46. Student attitudes in first-semester calculus. 1994. *MAA Focus*, vol 14. Pages 6–7
47. Review of *In search of E. T. Bell* by Constance Reid and *L'aurore des dieux* by Jacques Dixmier. 1994. *The Mathematical Intelligencer*, vol 16, pages 72–74
48. Review of *The Problems of Mathematics* by Ian Stewart. 1993. *The Mathematical Intelligencer*, vol 15, pages 71–73
49. Has Science made God irrelevant? 1991. *Plumbline*. Pages 4–6.
50. Most ferocious math problem is tamed. 1990. *Research Penn State*. Vol 11, pages 4–8.

## Accepted/Forthcoming/In press

### Book Review

1. Review of *Randomness and Recurrence in Dynamical Systems: A Real Analysis Approach*. In Press. **SIAM Review**.

### Talks

A list of talks starting in 2003 with links to pdf files of the slides can be found at <http://www.macalester.edu/~bressoud/talks/index.html>