

David M. Bressoud

Resumé

Business Address:

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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)
- State College Area High School (1990–91), taught Advanced Placement AB Calculus course
- University of Strasbourg (1985–86),
- University of Minnesota (1983),
- 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

Scholarly Interests:

Partition Theory, Number Theory, Combinatorics, q -Series, Special Functions, Symmetric Functions.
Author or editor of seven [books](#) including *Factorization and Primality Testing*, *Second Year Calculus from Celestial Mechanics to Special Relativity*, *A Radical Approach to Real Analysis*, *Proofs and Confirmations: the Story of the Alternating Sign Matrix Conjecture* and *A Course in Computational Number Theory*; over fifty [research articles](#); and more than fifteen [general articles](#) on mathematics education and related issues.

Professional Activities:

Current:

- President, MAA (2009–11)
- Principle Investigator, Characteristics of Successful Programs in College Calculus (2009–present), NSF DRL REESE grant #0910240
- member, Executive Committee of the Conference Board of the Mathematical Sciences (2009–present)
- associate editor for *The Ramanujan Journal*
- associate editor for *Annales des Sciences Mathématiques du Québec*
- associate editor for *The Fibonacci Quarterly*

Former:

- MAA Student Lecturer, 1994 *MathFest*
- member-at-large, Council of the AMS (1996–99)
- member, AMS Committee on Education (1996–99)
- chair of the Polya 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 Polya 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* (sponsored by US Department of Education FIPSE grant and the National Science Foundation DUE-CCLI grant)
- 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)