

David C. Haines
Professor of Mathematics
Bates College
Lewiston, Maine

Education

The Ohio State University, Ph.D. (Mathematics), 1969.

Fields of specialization: Algebra, Set Theory, Generalized Boolean Rings.

The Ohio State University, M. Sc. (Mathematics), 1966.

The College of Wooster, B. A. (Mathematics), 1964.

Employment History

Bates College, Department of Mathematics, Professor, September 1989-present.

Bates College, Interim Associate Dean of Faculty, 1991.

Bates College, Department of Mathematics, Associate Professor, 1977-1989.

Bates College, Department of Mathematics, Chair, 1979-1988; Acting Chair, 1993, 2001.

Maine Research Associates, Vice President, 1980-1994.

Bates College, Department of Mathematics, Assistant Professor, 1969-1977.

Iowa State University, Department of Mathematics, Instructor, 1967-1969.

Fellowships and Appointments

Sloan Summer Fellowship, 1984.

Visiting Scholar, M. I. T., 1977-78.

Andrew W. Mellon Fellowship, 1975-76.

Professional Memberships

American Mathematical Society

Mathematical Association of America

American Association for the Advancement of Science

Publications and Other Papers

"Mathematics Instruction in the Ifo, Dagahaley, and Hagadera Secondary Schools," UNHCR Dadaab Refugee Camp, Dadaab, Kenya. April 2007.

"A Program to Determine Cable Lengths, Spacer Lengths, etc. to Be Used in The Construction of the Astral Bench," prepared for Thos. Moser Cabinetmakers by Maine Research Associates, 1986.

"A Mathematical Model of One Edge of the Piece of Wood Laminate Resulting from the First Step in the Manufacture of the Back Bow for the Thos. Moser Continuous Arm Chair," prepared for Thos. Moser Cabinetmakers by Maine Research Associates, July, 1986, with R. W. Sampson.

"Computer Specifications for the Machine Room Control Functions," prepared for United Energy, Inc. by Maine Research Associates, January, 1981, with R. Brooks and R. W. Sampson.

"Injective objects in the category of p-rings," Proceedings of the American Mathematical Society 42 (1974), 57-60.

"Quasi-Orthogonality in p-Rings," Ph. D. dissertation, Ohio State University, 1969.

Selected Professional Activities

"Becoming a Mathematician," talk at the Annual Meeting of the Mathematical Association of America, January 7, 2008, San Diego, CA.

"Mathematics in a Forgotten Refugee Camp," Bates College Mathematics Department Seminar, November 14, 2007.

Participant, Maine School Management Association Annual Meeting, Augusta, Maine, October 25, 2007.

Mathematics Reader, Advanced Placement Program, Educational Testing Service, Princeton, New Jersey, 1985, 1987, 1988, 1989, 1993, 1995.

Director, Woodrow Wilson Institute in High School Mathematics, Bates College, Lewiston, Maine, July, 1988.

Participant, Advanced Placement Calculus Workshop, Middlebury College, Middlebury, Vermont, October 25, 1988.

Invited talk, "A Programming Languages Course: Abelson and Sussman at a Liberal Arts College," NECUSE Programming Language Workshop, Williams College, Williamstown, Massachusetts, October 30, 1988.

Participant, "Computer Graphics," NECUSE Workshop, Wellesley College, Wellesley, Massachusetts, January 19-21, 1989.

Presenter, Advanced Placement Calculus Workshop for Teachers, St. John's, Newfoundland, October 5-7, 1990.

Presenter, Advanced Placement Calculus Workshop for Teachers, St. Anselm's College, Manchester, New Hampshire, November 5, 1990.

Director, The Advanced Placement Course in Calculus (AB), Bates College Advanced Placement Summer Institute, Lewiston, Maine, 1989, 1990, 1991, 1992, 1993.

Member, SAT I Mathematics Review Panel, 1993-99.

Item writer for SAT I and GMAT, 1995-2005.

Selected Consulting

2007 CARE International, UNHCR Dadaab refugee camp, Kenya.

1986 Thos. Moser Cabinetmakers, Auburn, Maine.

1981-84 United Energy, Inc., Jay, Maine.

1982 Lewiston District Heating Project, Lewiston, Maine.

1980 Land Reclamation, Inc., Westbrook, Maine.

1976 City of Lewiston Police Department, Lewiston, Maine.

New Courses Introduced

Mathematics s21 Introduction to Abstraction, 1971.

Mathematics 341 Mathematical Modeling, 1977.

Mathematics s20 Symmetry, 1977.

Freshman Seminar 029 Reading, Writing, and Mathematics, 1978.

Mathematics 115 Principles of Computing, 1979.

Mathematics 311 Applied Abstract Algebra, 1979.

Computer Science s35 Digital Design and Computer Architecture, with R. Brooks, 1983.

Computer Science 365 The Mathematics and Algorithms of Computer Graphics, 1986.

Computer Science 202 Principles of Programming Languages, 1987.

Computer Science 365 Contemporary Programming Languages and their Implementations, 1993.

Biology s34 Tropical Field Ecology: Ecuador and the Galápagos Islands, with Prof. Sharon Kinsman, 1995.

Computer Science s45A Seminar in Computer Science: Comparative Programming Languages, 1996.

CBB 006 Mathematical Modeling on the Equator, 2000, in Quito, Ecuador.

CBB 007 Mathematical Modeling in Practice, 2000, in Quito, Ecuador.

First Year Seminar 303. Whose Standards? Whose Knowledge?, 2004.

Mathematics 365e. Computers and Abstract Mathematics, 2006.

Mathematics s45k. Abstraction Revisited: Some Things You May Have Missed Along the Way. 2006.

Selected College Activities

Member of the committees to draft the Bates College Five-Year Interim Reports for Reaccreditation, 1995, 2005.

Chair, Bates College Self-Study Team for Reaccreditation, 1991, 2000.

Assignment to the Office of the President of Bates College for the Goals 2005 strategic planning initiative, 1996-2001.

Program Director, Mathematical Modeling on the Equator, Colby-Bates-Bowdoin Off-Campus Study Center, Quito, Ecuador, Fall 2000.

Chair, Colby-Bates-Bowdoin Off-Campus Study Center Steering Committee at Quito, Ecuador, 2001-2004.

Recent Selected College Committee Work

Chair, Search Committee to hire three faculty members, Department of Mathematics, 2007-2008.

Member, Student Conduct Committee, 2007-2008.

Selected Community Activities

“Message from the Board of Trustees,” speech at The Maine School of Science and Mathematics Commencement. May 24, 2008. Limestone, Maine.

“Birding Dadaab,” public talk to the Stanton Bird Club, Auburn Public Library, Auburn, Maine, May 6, 2008.

Teach juggling to Bantu children at Middle Jubba Camp, Montello School. Lewiston, Maine. July 19, 2007.

Member and Chair of the Board of Trustees, The Maine School of Science and Mathematics, 2007-present.

Member and Vice Chair of the Board of Trustees, The Maine School of Science and Mathematics, 2006-2007.

President, Parents Group, The Maine School of Science and Mathematics, 2005-2006.

Member, Search Committee for the Executive Director of The Maine School of Science and Mathematics, 2005-2006.

Secretary, The Stanton Bird Club, Lewiston, Maine, 1993-present.

President, The Stanton Bird Club, Lewiston, Maine, 1989-1993.

Member, Board of Directors, Stanton Bird Club, Lewiston, Maine, 1987--.

Member, Advisory Committee to the Maine Science, Education, and Technology Project (supported by NSF funds), Maine State Office of Legislative Assistants, Augusta, Maine, 1981.

Advisory Trustee, Maine Audubon Society, 1980-1985.

Member, Governor's Select Committee on the Maine Department of Inland Fisheries and Wildlife, 1979-1980.

Member, Ad Hoc Committee to write a Zoning Code for Gravel Pits, City of Auburn, Maine, 1978.

Member, Board of Trustees, Maine Audubon Society, 1973-1980. Two years as Secretary (1975-1978) and chair of numerous committees, including Environmental Policy, and Nominating.