VITA

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E on

BA Hamilton College 1977
MA University of Wisconsin, Madison 1979
Ph.D University of Wisconsin, Madison 1983

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Knot theory, topology of embedded graphs, 3-manifolds, applications of topology to chemistry and molecular biology.

A os ons

1983-1985, G.C. Evans Instructor, Rice University
1985-1986, Visiting Assistant Professor, UC Santa Barbara
1986-1990, Assistant Professor, Pomona College
1990-1998, Associate Professor, Pomona College
1998-present, Professor, Pomona College
2006-present, Lingurn H. Burkhead Professor of Mathematics

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Fall 1987, Visiting Scholar, Université de Paris-Sud, France
Spring 1990, Visiting Scholar, Institute for Theoretical Dynamics, UC Davis
Spring 1996, Research Associate, Institut Henri Poincaré, France
Fall 2000, Research Associate, Institut des Hautes Études Scientifiques, France
Fall 2013, Long Term Visitor, Institute for Mathematics and its Applications, University of Minnesota

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1994, Instructor, Mills Summer Math Institute (for women), UC Berkeley
2000, 2001, 2003, 2004, 2005, 2007, 2008, 2009, 2010, 2013, 2014 Instructor, Summer Math Program for Women, Carleton College
2006, Undergraduate Instructor, Park City Math Institute
2007, Mini-course Instructor, Canada/USA Math Camp
2011, Undergraduate Faculty Program Instructor, Park City Math Institute

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2011, Haimo Award for Distinguished College or University Teaching of Mathematics, Mathematical Association of America.
2012, Inaugural Fellow of the American Mathematical Society.

2001-2006, member Spectrum Editorial Board, Mathematical Association of America.

2003-2006, Board of Regional Representatives, Budapest Semesters in Mathematics.

2004-2006, Teaching Awards Committee, Mathematical Association of America, Southern California Section.

2006-2007, Travel Grant Committee, Association for Women in Mathematics.

2007, CRAFTY (Curriculum Renewal in the First Two Years) Committee, Mathematical Association of America.

2008-present, West Coast Advisor for students applying for a National Science Foundation Graduate Research Fellowship in Mathematics.

2009-2010, Search Committee to find a new North American Director, Budapest Semesters in Mathematics.

2011-2012, MathFest Invited Address Committee, Mathematical Association of America.

2011-2012, Chair, Committee on the Undergraduate Program in Mathematics Study Group on Undergraduate Courses in Topology, Mathematical Association of America.

2013-2014, Chair, Committee on the Undergraduate Program in Mathemat-

(3) E. Flapan, The finiteness theorem for symmetries of knots and 3-manifolds with non-trivial characteristic decompositions, Topology and its Applications, 24 (1986) 123-131.

(4) E. Flapan, A prime strongly positive amphicheiral knot which is not slice, Math. Proc. of Cambridge Philosophical Society, 100 (1986) 533-537.

(5) E. Flapan, Chirality of nonstandardly embedded Möbius ladders, Graph Theory and Topology in Chemistry (Athens, Ga., 1987), Stud. Phys. Theoret. Chem., 51, Elsevier, Amsterdam, (1987) 76–81.

(6) E. Flapan, Rigid and non-rigid achirality, Pacific Journal of Math., Vol. 129, No.1, (1987) 57- 66.

(7) M. Boileau and E. Flapan, Uniqueness of free actions of S^3 respecting a knot, Canadian Journal of Math., 39 (1987) 969-982.

(8) E. Flapan, Symmetries of knotted hypothetical molecular graphs, Discrete Applied Math, 19 (1988) 157-166.

(9) E. Flapan, Symmetries of Möbius Ladders, Mathematische Annalen, 283, (1989) 271-283.

(10) E. Flapan, Topological Techniques to Detect Molecular Chirality, in P. Mezey, ed., New Developments in Molecular Chirality, Kluwer Academic Publishers, Netherlands (1991) 209-239.

(11) E. Flapan and N. Weaver, Intrinsic chirality of complete graphs, Proc. AMS, Vol. 115, No. 1, (1992) 233-236.

(12) E. Flapan,

(21)

(35) E. Flapan, B. Mellor, and R. Naimi,

(16) Spring 1988, Plenary Address, Mathematical Association of America, Southern California Section, Pepperdine University, Malibu
(17) Spring 1988, Colloquium, University of Iowa at Iowa City
(18) Spring 1989, Colloquium, University of California at Davis
(19) Spring 1989, Colloquium, California State University at Northridge
(20) Spring 1990, Conference on Mathematical Approaches to DNA, Santa Fe
(21) Spring 1990, Colloquium, Institute for Theoretical Dynamics, University of California at Davis
(22) Fall 1991, Conference on Topological Chemistry, Zentrum fur Interdisziplinare Forschung, Bielefeld, Germany
(23) Fall 1991, American Mathematical Society, Special Session on Low Dimensional Topology, University of California at Santa Barbara
(24) Fall 1991, Colloquium, Colorado College, Colorado Springs
(25) Summer 1992, Joint US-Israel Workshop on Geometric Topology, Technion, Haifa
(26) Fall 1992, Conference on Mathematics and Molecular Biology, Santa Fe
(27) Spring 1994, Colloquium, University of Redlands, California
(28) Spring 1995, American Mathematical Society, Special session on Scientific Applications of Geometry and Topology, Orlando
(29) Summer 1995, Workshop on Topology and Molecular Biology, Université Paul Sabatier, Toulouse, France
(30) Spring 1996, Seven lectures on Topological Stereochemistry, Institut Henri Poincaré, Paris
(31) Spring 1996, Colloquium, Université de Genève, Switzerland
(32) Fall 1996, Colloquium, Claremont Colleges
(33) Spring 1997, Plenary address, Mathematical Association of America, Southern California section, Occidental College, Los Angeles
(34) Spring 1997, 7th International Conference on Mathematical Chemistry, Girona, Spain
(35) Spring 1997, Symposium on Geometric Topology, PhD Centennial Conference, University of Wisconsin at Madison
(36) Spring 1997, Colloquium, California State University at Northridge
(37)

(42) Spring 1999, American Mathematical Society, Special session on Symmetries of knots and 3-manifolds, University of Nevada at Los Vegas

(43) Fall 1999, American Mathematical Society, Special session on Topology of DNA, University of Texas at Austin

(118) Summer 2013, International Workshop on Spatial Graphs, Tokyo Women's Christian University.
(119) Fall 2013, Colloquium, Carleton College, Northfield, Minnesota.
(120) Fall 2013, Invited Speaker, Workshop on Topological Structures in Computational Biology, Institute for Mathematics and its Applications.
(121) Spring 2014, Plenary Speaker, Texas Undergraduate Topology and Geometry Conference, University of Texas at Austin.
(122) Spring 2014, American Mathematical Society, Special Session on Physical Knots, Albuquerque, New Mexico.
(123) Spring 2014, Colloquium, California State Univereity at Long Beach
(124) Fall 2014, Distinguished Lecture, Mathematical Association of America, Carriage House in Washington, D.C
(125) Fall 2014, Invited Speaker, Pi Mu Epsilon initiation ceremony, Western Michigan University, Kalamazoo, Michigan.
(126) Fall 2014, Topology and Geometrycan Univ, West

(144) Spring 2016, two lectures, Macomb Multicultural International Initiative, Macomb Community College Libraries Enrichment Program, Warren, Michigan

(145) Spring 2016, Polya Lecture and Project NExT Lecture, Mathematical Association of America, Texas Section, Stephan F. Austin University.

(146) Spring 2016, Polya Lecture and Project NExT Lecture, Mathematical Association of America, Missouri Section, Missouri Western State University, St. Joseph, MO.