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## ***Curriculum Vitae***

### **Frank B. Mallory**

Research Professor of Chemistry and W. Alton Jones Professor Emeritus of Chemistry  
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#### **Education**

Undergraduate: B.S. *summa cum laude*, Yale University, 1954  
chemistry major, mathematics minor,  
research with Professor Werner Bergmann

Graduate: Ph.D. California Institute of Technology, 1958  
chemistry major, physics minor,  
dissertation research with Professor John D. Roberts

#### **Honors and Awards**

Phi Beta Kappa, Yale University, 1954  
NSF Predoctoral Fellow, California Institute of Technology, 1954-1955  
General Electric Company Fellow, California Institute of Technology, 1956-1957  
John Simon Guggenheim Memorial Foundation Fellow, 1963-1964  
Alfred P. Sloan Research Fellow, 1964-1966 and 1966-1968  
Bond Award of the American Oil Chemists' Society, 1970  
NSF Senior Postdoctoral Fellow, 1970-1971  
American Chemical Society Philadelphia Section Award for Distinguished Research, 1989  
Christian R. and Mary F. Lindback Foundation Award for Distinguished Teaching, 1992  
Philadelphia Organic Chemists' Club Award for Distinguished Research, 2000  
Fellow of the Inter-American Photochemistry Society Award for Lifetime Achievements in  
and Contributions to the Photochemical Sciences, 2006

#### **Bryn Mawr College Appointments**

Assistant Professor of Chemistry, 1957-1963  
Associate Professor of Chemistry, 1963-1969  
Professor of Chemistry, 1969-present  
Academic Deputy to the President (a position currently designated as Provost) 1978-1981  
Chairman, Department of Chemistry, 1982-1992  
W. Alton Jones Professor of Chemistry, 1985-2011  
W. Alton Jones Professor Emeritus of Chemistry, 2011-  
Research Professor of Chemistry, 2011-

#### **Other Professional Appointments**

Visiting Fellow, California Institute of Technology, 1963-1964  
Visiting Professor, State University of New York at Albany, summer 1967  
Visiting Professor, Yale University, 1968  
Visiting Fellow, Cornell University, 1970-1971

Visiting Professor, Yale University, 1977-1979  
Visiting Scholar, University of Pennsylvania, 1988-1989

### **Memberships in Professional Organizations**

American Chemical Society, 1959-present  
    Division of Organic Chemistry, 1959-present  
    Division of Fluorine Chemistry, 1987-present  
Inter-American Photochemical Society, 1978-present  
International Union of Pure and Applied Chemistry, 1985-present  
Philadelphia Organic Chemists' Club, 1958-present

### **Professional Activities**

American Chemical Society:  
    Visiting Associate, Professional Training Committee, 1961-present  
    Lecture Tour Speaker, 1967  
    Executive Committee, Division of Organic Chemistry, 1986-1992  
    Advisory Board, Journal of Organic Chemistry, 1988-1993  
    National Organic Chemistry Symposium Executive Officer, 1989-1991;  
        Executive Officer-elect, 1988-1989; Past Executive Officer, 1991-1992  
    Advisory Board, Chemical Sciences Graduate School Finder, 1991-present  
    Program Chair for the Division of Organic Chemistry and Coordinator for the  
        Organic and Medicinal Chemistry Subject Area at the 1995 International  
        Chemical Congress of Pacific Basin Societies, 1992-1995  
    Awards Committee, Philadelphia Section, 1992-1998  
    Editorial Advisory Board for the American Chemical Society journal, Organic Letters,  
        1999-present  
National Science Foundation:  
    Review Panel for Research Instrumentation Program, 1983  
    Review Panel for Career Awards Program, 1996  
Tetrahedron and Tetrahedron Letters:  
    Acting Editor of these two chemistry journals during parts of 1968, 1977, and 1978  
Philadelphia Organic Chemists' Club:  
    Assistant Secretary, 1959-1960; Secretary, 1960-1961; Chairman-elect, 1961-1962;  
    Chairman, 1962-1963  
Franklin Institute:  
    The Committee on Science and the Arts, 1986-2000  
Chamber Music Conference and Composer's Forum of the East:  
    Board of Directors, 1992-2006; Executive Committee, 1993-2006  
Wesleyan University:  
    Science Planning External Advisory and Visiting Committee, 1993  
Ursinus College:  
    Chairman of Outside Review Team for the Department of Chemistry, 1994  
University of Pennsylvania:  
    Mass Spectrometry Advisory Committee, Department of Chemistry, 1996-present  
American Association for the Advancement of Science:  
    Review Panel for Merck/AAAS Undergraduate Science Research Awards, 1997

### Scholarly Publications: Articles and Chapters

1. "Benzofurazan Oxide," Frank B. Mallory, *Organic Syntheses* **1957**, 37, 1-2. [Coll. Vol. 4 (1963), 74-75.]
2. "Small-Ring Compounds. XXX. Reactions of Phenylcyclobutadienoquinone with Methanol," Frank B. Mallory and John D. Roberts, *Journal of the American Chemical Society* **1961**, 83, 393-397.
3. "Furazan Oxides. I. The Structure of Benzofurazan Oxide," Frank B. Mallory and Clelia S. Wood, *Proceedings of the National Academy of Sciences* **1961**, 47, 697-700.
4. "Aromatic Nitroso Compounds. I. A New 1,4-Rearrangement," Frank B. Mallory, Kathleen E. Schueller, and Clelia S. Wood, *Journal of Organic Chemistry* **1961**, 26, 3312-3316.
5. "A Convenient Laboratory Sublimation Apparatus," Frank B. Mallory, *Journal of Chemical Education* **1962**, 39, 261.
6. "<sup>17</sup>O-Kernresonanz Untersuchungen an Benzofurazanoxid," Peter Diehl, H. A. Christ, and Frank B. Mallory, *Helvetica Chimica Acta* **1962**, 45, 504-506.
7. "Furazan Oxides. II. Evidence for Equilibration of Benzofurazan Oxides with *o*-Dinitrosobenzenes," Frank B. Mallory and Clelia S. Wood, *Journal of Organic Chemistry* **1962**, 27, 4109-4111.
8. "Photochemistry of Stilbenes. I.," Frank B. Mallory, Clelia S. Wood, Janice T. Gordon, Lois C. Lindquist, and Maxine L. Savitz, *Journal of the American Chemical Society* **1962**, 84, 4361-4362.
9. "Photochemistry of Stilbenes. II. Substituent Effects on the Rates of Phenanthrene Formation," Frank B. Mallory, Janice T. Gordon, and Clelia S. Wood, *Journal of the American Chemical Society* **1963**, 85, 828-829.
10. "The Isolation of a Pentacyclic Triterpenoid Alcohol from a Protozoan," Frank B. Mallory, Janice T. Gordon, and Robert L. Conner, *Journal of the American Chemical Society* **1963**, 85, 1362-1363.
11. "Furazan Oxides. III. An Unusual Type of Aromatic Substitution Reaction," Frank B. Mallory and Suzanne P. Varimbi, *Journal of Organic Chemistry* **1963**, 28, 1656-1662.
12. "Photochemistry of Stilbenes. III. Some Aspects of the Mechanism of Photocyclization to Phenanthrenes," Frank B. Mallory, Clelia S. Wood, and Janice T. Gordon, *Journal of the American Chemical Society* **1964**, 86, 3094-3102.
13. "Furazan Oxides. IV. Extensions of the Scope of the Haloalkoxy Substitution Reaction," Frank B. Mallory, Clelia S. Wood, and Barbara M. Hurwitz, *Journal of Organic Chemistry* **1964**, 29, 2605-2609.

14. "Photochemistry of Stilbenes. IV. The Preparation of Substituted Phenanthrenes," Clelia S. Wood and Frank B. Mallory, *Journal of Organic Chemistry* **1964**, 29, 3373-3377.
15. "Apparatus for Steam Distillation," Frank B. Mallory, *Journal of Chemical Education* **1965**, 42, 108.
16. "The Blue Emission from *cis*-Stilbenes," Angelo A. Lamola, George S. Hammond, and Frank B. Mallory, *Photochemistry and Photobiology* **1965**, 4, 259-263.
17. "The Synthesis of Tetrahymanol," Y. Tsuda, A. Morimoto, T. Sano, Y. Inubushi, Frank B. Mallory, and Janice T. Gordon, *Tetrahedron Letters* **1965**, 1427-1431.
18. "Photochemistry of Stilbenes. V. The Photocyclization of Anils to Phenanthridines," Frank B. Mallory and Clelia S. Wood, *Tetrahedron Letters* **1965**, 2643-2648.
19. "9-Phenylphenanthrene," Frank B. Mallory and Clelia S. Wood, *Organic Syntheses* **1965**, 45, 91-95. [Coll. Vol. 5 (1973), 952-956.]
20. "The Rates of Some Degenerate Rearrangements as Determined by Nuclear Magnetic Resonance Spectroscopy," Frank B. Mallory, Stanley L. Manatt, and Clelia S. Wood, *Journal of the American Chemical Society* **1965**, 87, 5433-5438.
21. "Evidence for the Transient Existence of 1,2-Dinitrosoalkenes," Frank B. Mallory and Arthur Cammarata, *Journal of the American Chemical Society* **1966**, 88, 61-64.
22. "Evidence for a Nonoxidative Cyclization of Squalene in the Biosynthesis of Tetrahymanol," Eliahu Caspi, J. M. Zander, J. B. Greig, Frank B. Mallory, Robert L. Conner, and Josephine R. Landrey, *Journal of the American Chemical Society* **1968**, 90, 3563-3564.
23. "The Biosynthesis of Tetrahymanol from (4*R*)-[4-<sup>3</sup>H-2-<sup>14</sup>C]-Mevalonic Acid," Frank B. Mallory, Robert L. Conner, Josephine R. Landrey, J. M. Zander, J. B. Greig, and Eliahu Caspi, *Journal of the American Chemical Society* **1968**, 90, 3564-3566.
24. "Cholesterol Inhibition of Pentacyclic Triterpenoid Biosynthesis in *Tetrahymena pyriformis*," Robert L. Conner, Josephine R. Landrey, Christina H. Burns, and Frank B. Mallory, *Journal of Protozoology* **1968**, 15, 600-605.
25. "The Photodegradation of Polyethylene Film," James F. Heacock, Frank B. Mallory, and Frank P. Gay, *Journal of Polymer Science, Part A-1* **1968**, 6, 2921-2934.
26. "On the Biosynthesis of Sterols and Pentacyclic Triterpenoids in *Tetrahymena pyriformis*," Robert L. Conner and Frank B. Mallory, *Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin, Klasse für Medizin* **1968**, 2, 5-16.
27. "The Biosynthesis of 7,22-Bisdehydrocholesterol from Cholesterol," Frank B. Mallory, Robert L. Conner, Josephine R. Landrey, and Chung Wha L. Iyengar, *Tetrahedron Letters* **1968**, 6103-6106.

28. "The Conversion of Cholesterol to  $\Delta^{5,7,22}$ -Cholestatrien-3 $\beta$ -ol by *Tetrahymena pyriformis*," Robert L. Conner, Frank B. Mallory, Josephine R. Landrey, and Chung Wha L. Iyengar, *Journal of Biological Chemistry* **1969**, 244, 2325-2333.
29. "Micro Method for the Quantitative Determination of  $\Delta^{22}$  Sterols," Frank B. Mallory, Karen A. Ferguson, and Robert L. Conner, *Analytical Biochemistry* **1970**, 33, 230-237.
30. "Non-Least-Motion Potential Surfaces. The Dimerization of Methylenes and Nitroso Compounds," Roald Hoffmann, Rolf Gleiter, and Frank B. Mallory, *Journal of the American Chemical Society* **1970**, 92, 1460-1466.
31. "Conformational Analysis of the Enzyme-Substrate Complex in the Dehydrogenation of Sterols by *Tetrahymena pyriformis*," W. Robert Nes, P. A. Govinda Malya, Frank B. Mallory, Karen A. Ferguson, Josephine R. Landrey, and Robert L. Conner, *Journal of Biological Chemistry* **1971**, 246, 561-568.
32. "Dehydrogenation and Dealkylation of Various Sterols by *Tetrahymena pyriformis*," Frank B. Mallory and Robert L. Conner, *Lipids* **1971**, 6, 149-153.
33. "The Effect of Ergosterol on the Fatty Acid Composition of *Tetrahymena pyriformis*," Karen A. Ferguson, Robert L. Conner, and Frank B. Mallory, *Archives of Biochemistry and Biophysics* **1971**, 144, 448-452.
34. "Ergosterol Replacement of Tetrahymanol in *Tetrahymena* Membranes," Robert L. Conner, Frank B. Mallory, Josephine R. Landrey, Karen A. Ferguson, Edna S. Kaneshiro, and Eva Ray, *Biochemical and Biophysical Research Communications* **1971**, 44, 995-1000.
35. "3-Fluorophenanthrene," Clelia W. Mallory and Frank B. Mallory, Organic Photochemical Preparations, R. Srinivasan, editor, J. Wiley (**1971**), 55-57.
36. " $\alpha$ -Hydroxy Fatty Acids in Sphingolipids of *Tetrahymena*," Karen A. Ferguson, Robert L. Conner, Frank B. Mallory, and Clelia W. Mallory, *Biochimica et Biophysica Acta* **1972**, 270, 111-116.
37. "Photochemistry of Stilbenes. VI. Steric Effects on the Photocyclizations of Some Meta-Substituted Stilbenes," Frank B. Mallory and Clelia W. Mallory, *Journal of the American Chemical Society* **1972**, 94, 6041-6048.
38. "Evidence for a Steric Effect on Directly Bonded Carbon-Fluorine and Carbon-Proton NMR Couplings," Stanley L. Manatt, M. Ashley Cooper, Clelia W. Mallory, and Frank B. Mallory, *Journal of the American Chemical Society* **1973**, 95, 975-977.
39. "A Theory Regarding the Role of Lone-Pair Interactions in Through-Space Fluorine-Fluorine Nuclear Spin-Spin Coupling," Frank B. Mallory, *Journal of the American Chemical Society* **1973**, 95, 7747-7752.
40. "Substituent Effects on Through-Space  $^{19}\text{F}$ - $^{19}\text{F}$  Coupling in the 1,8-Difluoronaphthalene System," Frank B. Mallory, Clelia W. Mallory, and Mary-Clare Fedarko, *Journal of the American Chemical Society* **1974**, 96, 3536-3542.

41. "Dealkylation of 24-Ethylsterols by *Tetrahymena pyriformis*," W. Robert Nes, A. Alcaide, Frank B. Mallory, Josephine R. Landrey, and Robert L. Conner, *Lipids* **1975**, *10*, 140-144.
42. "Spin-Tickling in Nuclear Magnetic *Single* Resonance," Jay M. Anderson, Frank B. Mallory, and Clelia W. Mallory, *Journal of Magnetic Resonance* **1975**, *17*, 340-343.
43. "Chemical Shift Measurements of Substituent Effects on Out-of-Plane Magnetic Shielding in Benzene Derivatives," Lynn Penn and Frank B. Mallory, *Journal of Magnetic Resonance* **1975**, *18*, 6-11.
44. "Nuclear Spin-Spin Coupling via Nonbonded Interactions. III. Effects of Molecular Structure on Through-Space Fluorine-Fluorine and Hydrogen-Fluorine Coupling," Frank B. Mallory, Clelia W. Mallory, and Wendella M. Ricker, *Journal of the American Chemical Society* **1975**, *97*, 4770-4771.
45. "Effect of Sterol Replacement *in Vivo* on the Fatty Acid Composition of *Tetrahymena*," Karen A. Ferguson, F. M. Davis, Robert L. Conner, Josephine R. Landrey, and Frank B. Mallory, *Journal of Biological Chemistry* **1975**, *250*, 6998-7005.
46. "Evidence Against the Intramolecular Cyclization of *o*-Azidobenzenediazonium Ions," Donna S. Amenta and Frank B. Mallory, *Journal of Organic Chemistry* **1980**, *45*, 5236-5238.
47. "Photochemistry of Stilbenes. VII. An Unusual Fluorine Atom Rearrangement in the Photocyclization of 1-Fluoro[5]helicenes," Frank B. Mallory and Clelia W. Mallory, *Journal of Organic Chemistry* **1983**, *48*, 526-532.
48. "Photocyclization of Stilbenes and Related Molecules," Frank B. Mallory and Clelia W. Mallory, *Organic Reactions* **1984**, *30*, 1-456.
49. "Studies of Magnetic Anisotropy. 2. NMR Evidence for the Existence of Deshielding Regions Alongside Carbon-Carbon Triple Bonds," Frank B. Mallory and Mary B. Baker, *Journal of Organic Chemistry* **1984**, *49*, 1323-1326.
50. "Nuclear Spin-Spin Coupling via Nonbonded Interactions. 4. F-F and H-F Coupling in Substituted Benzo[*c*]phenanthrenes," Frank B. Mallory, Clelia W. Mallory, and Wendella M. Ricker, *Journal of Organic Chemistry* **1985**, *50*, 457-461.
51. "Nuclear Spin Relaxation and Internal Motion in Molecular Solids Containing Isopropyl Groups. Part 1. An Introductory Zeeman Relaxation Study," Peter A. Beckmann, Angela M. Cheung, Ruth E. Herzog, Emily E. Fisch, Manjula Narasimhan, Clelia W. Mallory, and Frank B. Mallory, *Journal of the Chemical Society, Faraday Transactions 2* **1985**, *81*, 1013-1021.
52. "Nuclear Spin-Spin Coupling via Nonbonded Interactions. 5. N-F Coupling," Frank B. Mallory and Clelia W. Mallory, *Journal of the American Chemical Society* **1985**, *107*, 4816-4819.
53. "Formation of a Dinaphthanthracene by a Stilbene-Like Photocyclization," Frank B. Mallory, Clelia W. Mallory, and Stephanie E. Sen Loeb, *Tetrahedron Letters* **1985**, *26*, 3773-3776.

54. "Resolution and Structural Assignment of the Three Components in *trans*-1,2-Di-(2-naphthyl)ethene Fluorescence," Jack Saltiel, Donald F. Sears, Jr., Frank B. Mallory, Clelia W. Mallory, and Carolyn A. Buser, *Journal of the American Chemical Society* **1986**, *108*, 1688-1689.
55. "Methyl Reorientation in Methylphenanthrenes. I. Solid-State Proton Spin-Lattice Relaxation in the 3-Methyl, 9-Methyl, and 3,9-Dimethyl Systems," Kathleen G. Conn, Peter A. Beckmann, Clelia W. Mallory, and Frank B. Mallory, *Journal of Chemical Physics* **1987**, *87*, 20-27.
56. "Principal Component-Three Component Self-Modeling Analysis Applied to *trans*-1,2-Di-(2-naphthyl)ethene Fluorescence," Ya-Ping Sun, Donald F. Sears, Jr., Jack Saltiel, Frank B. Mallory, Clelia W. Mallory, and Carolyn A. Buser, *Journal of the American Chemical Society* **1988**, *110*, 6974-6984.
57. "Photochemistry of Stilbenes. VIII. Eliminative Photocyclization of *o*-Methoxystilbenes," Frank B. Mallory, M. Jonathan Rudolph, and Soon M. Oh, *Journal of Organic Chemistry* **1989**, *54*, 4619-4626.
58. "Methyl Reorientation in Methylphenanthrenes. II. Solid-State Proton Spin-Lattice Relaxation in the 1-CH<sub>3</sub>,9-CH<sub>3</sub> and 1-CD<sub>3</sub>,9-CH<sub>3</sub> Systems," Frank B. Mallory, Clelia W. Mallory, Peter A. Beckmann, and Kathleen G. Conn, *Journal of Physics and Chemistry of Solids* **1990**, *51*, 129-134.
59. "Nuclear Spin-Spin Coupling via Nonbonded Interactions. 6. F-F Coupling Through an Intervening Phenyl Group," Frank B. Mallory, Clelia W. Mallory, and Mary B. Baker, *Journal of the American Chemical Society* **1990**, *112*, 2577-2581.
60. "Proton Zeeman Relaxation and Intramolecular Reorientation in Solid *t*-Butylbenzene," Peter A. Beckmann, Robin M. Hathorn, and Frank B. Mallory, *Molecular Physics* **1990**, *69*, 411-428.
61. "Nuclear Spin-Spin Coupling via Nonbonded Interactions. 7. Effects of Molecular Structure on N-F Coupling," Frank B. Mallory, Eddie D. Luzik, Jr., Clelia W. Mallory, and Patrick J. Carroll, *Journal of Organic Chemistry* **1992**, *57*, 366-370.
62. "Effect of Spectral Shifts on the Resolution of *trans*-1-(2-Naphthyl)-2-phenylethene Conformer UV Spectra Based on Principal Component Analysis with Self-Modeling," Jack Saltiel, Jong-Oh Choi, Donald F. Sears, Jr., David W. Eaker, Frank B. Mallory, and Clelia W. Mallory, *Journal of Physical Chemistry* **1994**, *98*, 13162-13170.
63. "The Reaction of 1,3,5-Trinitrobenzene with Methoxide and Hypochlorite Ions," Frank B. Mallory, Donna S. Amenta, Clelia W. Mallory, and Jih-Jen Joy C. Cheung, *Journal of Organic Chemistry* **1996**, *61*, 1551-1554.
64. "Coupling Through Space in Organic Chemistry," Frank B. Mallory and Clelia W. Mallory, *Encyclopedia of Nuclear Magnetic Resonance*; Grant, D. M., Harris, R. K., Eds.; J. Wiley & Sons: Chichester, **1996**; Vol. 3, pp 1491-1501.

65. "Phenacenes: A Family of Graphite Ribbons. 1. Syntheses of Some [7]Phenacenes by Stilbene-like Photocyclizations," Frank B. Mallory, Kelly E. Butler, Amanda C. Evans, and Clelia W. Mallory, *Tetrahedron Letters* **1996**, 37, 7173-7176.
66. "Phenacenes: A Family of Graphite Ribbons. 2. Syntheses of Some [7]Phenacenes and an [11]Phenacene by Stilbene-like Photocyclizations," Frank B. Mallory, Kelly E. Butler, Amanda C. Evans, Emilie J. Brondyke, Clelia W. Mallory, Changqing Yang, and Aviva Ellenstein, *Journal of the American Chemical Society* **1997**, 119, 2119-2124.
67. "Methyl Reorientation in Solid 3-Ethylchrysene and 3-Isopropylchrysene," Peter A. Beckmann, Carolyn A. Buser, Clelia W. Mallory, Frank B. Mallory, and Jennifer Mosher, *Solid State Nuclear Magnetic Resonance* **1998**, 251-256.
68. "Phenacenes," Frank B. Mallory, *McGraw-Hill 1999 Yearbook of Science and Technology* **1998**, 281-284.
69. "Nuclear Spin-Spin Coupling via Nonbonded Interactions. 8. The Distance Dependence of Through-Space Fluorine-Fluorine Coupling," Frank B. Mallory, Clelia W. Mallory, Kelly E. Butler, Mary Beth Lewis, Qian Xia, Eddie D. Luzik, Jr., Laura E. Fredenburgh, Mercy M. Ramanjulu, Que N. Van, Michelle M. Francl, Dana A. Freed, Chandra C. Wray, Christine Hann, Maryellen Nerz-Stormes, Patrick J. Carroll, and Lisa E. Chirlian, *Journal of the American Chemical Society* **2000**, 122, 4108-4116.
70. "Phenacenes: A Family of Graphite Ribbons. 3. Iterative Strategies for the Synthesis of Large Phenacenes," Frank B. Mallory, Kelly E. Butler, Amélie Bérubé, Eddie D. Luzik, Jr., Clelia W. Mallory, Emilie J. Brondyke, Rupa Hiremath, Phung L. Ngo, and Patrick J. Carroll, *Tetrahedron* **2001**, 57, 3715-3724.
71. "Methyl Group Rotation and  $^1\text{H}$  and  $^2\text{H}$  Zeeman Relaxation in Organic Solids," Peter A. Beckmann, Cecil Dybowski, Edward J. Gaffney, Clelia W. Mallory, and Frank B. Mallory, *Journal of Physical Chemistry A* **2001**, 105, 7350-7355.
72. "The Crystal Packing of 4,7-Dichloro- and 4,7-Dibromobenzo[*c*]furan 1-Oxide," Doyle Britton, Frank B. Mallory, and Clelia W. Mallory, *Acta Crystallographica* **2002**, C58, o235-o238.
73. "Methyl and *t*-Butyl Group Reorientation in Planar Aromatic Solids: Low-Frequency Nuclear Magnetic Resonance Relaxometry and X-Ray Diffraction," Peter A. Beckmann, Carolyn A. Buser, Kathleen M. Gullifer, Frank B. Mallory, Clelia W. Mallory, Gene M. Rossi, and Arnold L. Rheingold, *Journal of Chemical Physics* **2003**, 118, 11129-11138.
74. Book Review of "Synthetic Organic Photochemistry. Molecular and Supramolecular Photochemistry, Volume 12. Edited by Axel G. Griesbeck and Jochen Mattay. Series edited by V. Ramamurthy and K. S. Schanze. Marcel Dekker: New York. 2005," Frank B. Mallory, *Journal of the American Chemical Society* **2005**, 127, 11531.
75. "CF<sub>3</sub> Rotation in 3-(Trifluoromethyl)phenanthrene: Solid State  $^{19}\text{F}$  and  $^1\text{H}$  NMR Relaxation and Bloch-Wangsness-Redfield Theory," Peter A. Beckmann, Jessie Rosenberg, Kerstin Nordstrom, Clelia W. Mallory, and Frank B. Mallory, *Journal of Physical Chemistry A* **2006**, 110, 3947-3953.

76. "CF<sub>3</sub> Rotation in 3-(Trifluoromethyl)phenanthrene. X-ray Diffraction and ab Initio Electronic Structure Calculations," Xianlong Wang, Frank B. Mallory, Clelia W. Mallory, Peter A. Beckmann, Arnold L. Rheingold, and Michelle M. Francl, *Journal of Physical Chemistry A* **2006**, *110*, 3954-3960.
77. "Rigid, Fused-ring Molecules as Nano-reinforcements for Engineering Polymers," Lynn S. Penn, Julie C. Jacobs, John E. Anthony, Marcia M. Payne, Brian D. Swiss, Frank B. Mallory, Kai Liu, and Ryan A. Miller, *Journal of Composite Materials* **2008**, *42*, 109-123.
78. "The Quenching of Isopropyl Group Rotation in Van der Waals Molecular Solids," Xianlong Wang, Arnold L. Rheingold, Antonio G. DiPasquale, Frank B. Mallory, Clelia W. Mallory, and Peter A. Beckmann, *Journal of Chemical Physics* **2008**, *128*, 124502/1-124502/3.
79. "The Indirect Through-Space F-F Coupling in *peri*-Difluoronaphthalene: Is It Anisotropic?" J. W. Emsley, G. De Luca, A. Lesage, M. Longeri, Frank B. Mallory, and Clelia W. Mallory, *Physical Chemistry Chemical Physics* **2008**, *10*, 6534-6543.
80. "Intramolecular and Intermolecular Contributions to the Barriers for Rotation of Methyl Groups in Crystalline Solids: Electronic Structure Calculations and Solid State NMR Relaxation Measurements," Xianlong Wang, Peter A. Beckmann, Clelia W. Mallory, Arnold L. Rheingold, Antonio G. DiPasquale, Patrick J. Carroll, and Frank B. Mallory, *Journal of Organic Chemistry* **2011**, *76*, 5170-5176.

#### Scholarly Publications: Abstracts of Research Talks

1. 2nd ACS Delaware Valley Regional Meeting, Philadelphia, PA, February 5, **1958**, page 42, "Reactions of Phenylcyclobutadienoquinone with Methanol," Frank B. Mallory and John D. Roberts.
2. 3rd ACS Delaware Valley Regional Meeting, Philadelphia, PA, February 25, **1960**, page 48, "The Photochemical Synthesis of Phenanthrenes," Frank B. Mallory, Clelia S. Wood, and Lois C. Lindquist.
3. 139th ACS National Meeting, St. Louis, MO, March 21, **1961**, page 13-O, "A New 1,4-Rearrangement," Frank B. Mallory, Kathleen E. Schueller, and Clelia S. Wood.
4. 140th ACS National Meeting, Chicago, IL, September 7, **1961**, page 67-Q, "The Photochemical Synthesis of Phenanthrenes," Frank B. Mallory, Clelia S. Wood, and Lois C. Lindquist.
5. 4th ACS Delaware Valley Regional Meeting, Philadelphia, PA, January 26, **1962**, page 55, "An Unusual Aromatic Substitution Reaction," Frank B. Mallory and Suzanne P. Varimbi.
6. 142nd ACS National Meeting, Atlantic City, New Jersey, September 13, **1962**, page 68-Q, "Evidence for Equilibration of Benzofurazan Oxides *via* Dinitrosobenzenes," Frank B. Mallory and Clelia S. Wood.
7. 144th ACS National Meeting, Los Angeles, CA, April 5, **1963**, page 63-M, "An Unusual Aromatic Substitution Reaction," Frank B. Mallory and Suzanne P. Varimbi.

8. 150th ACS National Meeting, Atlantic City, NJ, September 17, **1965**, page 65-S, "Kinetic Evidence for the Transient Existence of 1,2-Dinitrosoalkenes," Frank B. Mallory and Arthur Cammarata.
9. 1st ACS Middle Atlantic Regional Meeting, Philadelphia, PA, February 3, **1966**, page 134, "Electronic and Steric Effects in the Photocyclizations of Some Stilbene Derivatives," Frank B. Mallory, Clelia W. Mallory, and Ellen J. Halpern.
10. 3rd ACS Middle Atlantic Regional Meeting, Philadelphia, PA, February 1, **1968**, page 65, "The Determination of Substituent Effects by Fluorine-19 Nuclear Magnetic Resonance Spectroscopy," Frank B. Mallory, Clelia W. Mallory, John W. Raniseski, and Terry L. Newirth.
11. 155th ACS National Meeting, San Francisco, CA, April 5, **1968**, paper #P217, "Structure-Reactivity Relationships in Stilbene Photocyclizations," Frank B. Mallory, Clelia W. Mallory, and Suzanne P. Varimbi.
12. 61st Annual Meeting of the American Oil Chemists' Society, New Orleans, LA, April 29, **1970**, page 61, "The Interaction of Sterols and *Tetrahymena pyriformis*," Frank B. Mallory and Robert L. Conner.
13. 6th ACS Middle Atlantic Regional Meeting, Baltimore, Maryland, February 4, **1971**, page 65, "Biosynthetic Transformations of Squalene and Sterols," Frank B. Mallory and Robert L. Conner.
14. 162nd ACS National Meeting, Washington, D.C., September 15, **1971**, paper #ORGN-110, "Steric Effects on Directly Bonded NMR Coupling Constants and the Sign of F-F Coupling Constants in Difluorobenzenes and 1,8-Difluoronaphthalenes," Stanley L. Manatt, M. Ashley Cooper, Clelia W. Mallory, and Frank B. Mallory.
15. 7th ACS Middle Atlantic Regional Meeting, Philadelphia, PA, February 14, **1972**, page 75, "Photochemistry of Stilbenes," Frank B. Mallory.
16. 5th ACS Northeast Regional Meeting, Rochester, NY, October 14, **1973**, paper #26, "Hammett Correlations of Some Excited-Molecule Reactivities," Frank B. Mallory, Mary T. Arnold, Clelia W. Mallory, and Thomas E. Colman.
17. 168th ACS National Meeting, Atlantic City, NJ, September 11, **1974**, paper #ORGN-77, "Evidence Against the Intramolecular Cyclization of *ortho*-Azidobenzenediazonium Ions," Donna S. Amenta and Frank B. Mallory.
18. 169th ACS National Meeting, Philadelphia, PA, April 7, **1975**, paper #ORGN-35, "Nucleophilic Additions to Aromatic Systems," Donna S. Amenta and Frank B. Mallory.
19. 1st Chemical Congress of the North American Continent, Mexico City, Mexico, December 2, **1975**, paper #ORGA-46, "The Existence of a Region of Magnetic Deshielding Alongside Carbon-Carbon Triple Bonds," Frank B. Mallory and Mary B. Baker.

20. 10th ACS Middle Atlantic Regional Meeting, Philadelphia, PA, February 25, **1976**, page 78, "Uncommon Rearrangements in the Photocyclizations of Some Stilbene Analogs," Frank B. Mallory, Clelia W. Mallory, and Wendella M. Ricker.
21. 9th IUPAC Symposium on Photochemistry, Pau, France, July 27, **1982**, pages 224-225, "A Novel Fluorine Rearrangement in the Photocyclization of 1-Fluoro[5]helicenes," Frank B. Mallory and Clelia W. Mallory.
22. 20th Conference on Reaction Mechanisms, Duke University, Durham, NC, June 4-7, **1984**, "Regioselectivity in the Photocyclizations of Stilbene Analogs," Frank B. Mallory, Clelia W. Mallory, Marie Tani, and Stephanie Sen Loeb.
23. 10th IUPAC Symposium on Photochemistry, Interlaken, Switzerland, July 24, **1984**, pages 145-146, "Regioselectivity in the Photocyclizations of Stilbene Analogs," Frank B. Mallory, Clelia W. Mallory, Marie Tani, and Stephanie Sen Loeb.
24. 188th ACS National Meeting, Philadelphia, PA, August 27, **1984**, paper #ORGN-68, "Fluorine-Fluorine Nuclear Spin-Spin Coupling by *Indirect* Nonbonded Interactions," Frank B. Mallory, Clelia W. Mallory, and Mary B. Baker.
25. 19th ACS Middle Atlantic Regional Meeting, West Long Branch, NJ, May 23, **1985**, page 98, "'Through-Space' N-F Nuclear Spin-Spin Coupling," Frank B. Mallory and Clelia W. Mallory.
26. 190th ACS National Meeting, Chicago, IL, September 9, **1985**, paper #ORGN-47, "Formation of a Dinaphthanthracene by a Stilbene-Like Photocyclization," Frank B. Mallory, Stephanie E. Sen Loeb, and Clelia W. Mallory.
27. 33rd ACS Southwest Regional and 37th ACS Southeast Regional Meeting, Memphis, TN, October 11, **1985**, paper #307, "Principal Component Analysis Applied to 1,2-Di-(2-naphthyl)ethene Fluorescence," Jack Saltiel, Donald F. Sears, Jr., Frank B. Mallory, and Clelia W. Mallory.
28. 191st ACS National Meeting, New York, NY, April 18, **1986**, paper #ORGN-284, "Effects of Molecular Structure on Methyl Reorientation as Measured by Nuclear Spin Relaxation," Frank B. Mallory, Peter A. Beckmann, Kathleen Conn, and Clelia W. Mallory.
29. Eighth ACS Winter Fluorine Conference, St. Petersburg Beach, FL, January 26, **1987**, paper #7, "NMR Studies of 'Through-Space' Nuclear Spin-Spin Coupling Involving Fluorine," Frank B. Mallory, Mary B. Baker, and Clelia W. Mallory.
30. 193rd ACS National Meeting, Denver, CO, April 6, **1987**, paper #ORGN-97, "Nuclear Spin-Spin Coupling via Nonbonded Interactions: FF Distance and Orientation Effects," Clelia W. Mallory, Patrick J. Carroll, and Frank B. Mallory.
31. 21st ACS Middle Atlantic Regional Meeting, Pomona, NJ, May 20, **1987**, paper #184, "Eliminative Photocyclization of *o*-Methoxystilbenes," M. Jonathan Rudolph and Frank B. Mallory.

32. 194th ACS National Meeting, New Orleans, LA, August 31, **1987**, paper #ORGN-121, "NMR Studies of NF Nuclear Spin Coupling via Nonbonded Interactions," Frank B. Mallory, Eddie D. Luzik, Jr., Clelia W. Mallory, and Patrick J. Carroll.
33. 39th ACS Southeast Regional Meeting, Orlando, FL, November 4, **1987**, paper #151, "A Three-Component Self-Modeling Technique Applied to 1,2-Di-(2-naphthyl)ethene Fluorescence," Ya-Ping Sun, Donald F. Sears, Jr., Jack Saltiel, Frank B. Mallory, Clelia W. Mallory, and Carolyn A. Buser.
34. Florida ACS Meeting, Tampa, FL, April **1988**, "Determination of the Conformer Excitation Spectra of *trans*-1,2-Di-(2-naphthyl)ethene Using an Excitation-Fluorescence Two-Dimensional Matrix," Ya-Ping Sun, Jack Saltiel, Frank B. Mallory, Clelia W. Mallory, and Carolyn A. Buser.
35. 22nd Conference on Reaction Mechanisms, Pittsburgh, PA, June 12-16, **1988**, "Regioselectivity in the Photocyclization of Stilbenes," Frank B. Mallory, M. Jonathan Rudolph, Soon M. Oh, and Clelia W. Mallory.
36. EUCHEM Conference on Photoisomerism and Rotamerism in Organic Molecules, Assisi, Italy, July 12-15, **1988**, pages 18-19, "Principal Component Analysis: Self-Modeling Applications to 1,2-Diarylethene Fluorescence," Jack Saltiel, Ya-Ping Sun, Donald F. Sears, Jr., Frank B. Mallory, Clelia W. Mallory, and Carolyn A. Buser.
37. EUCHEM Conference on Photoisomerism and Rotamerism in Organic Molecules, Assisi, Italy, July 12-15, **1988**, page 64, "Rotamerism in the Photocyclization of Ortho- and Meta-Substituted Stilbenes," Frank B. Mallory, M. Jonathan Rudolph, Soon M. Oh, and Clelia W. Mallory.
38. 12th IUPAC Symposium on Photochemistry, Bologna, Italy, July 18-22, **1988**, pages 674-675, "Nonoxidative Photocyclization of *o*-Methoxystilbenes," Frank B. Mallory, M. Jonathan Rudolph, Soon M. Oh, and Clelia W. Mallory.
39. 2nd Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, January 3-7, **1989**, page 58, "Applications of Principal Component Self-Modeling Analysis to Photochemically Significant Spectroscopic Problems," Jack Saltiel, Ya-Ping Sun, Donald F. Sears, Jr., Jong-Oh Choi, Frank B. Mallory, Clelia W. Mallory, and Carolyn A. Buser.
40. 23rd ACS Middle Atlantic Regional Meeting, Cherry Hill, NJ, May 25, **1989**, paper #167, "Nuclear Spin Coupling via Nonbonded Interactions: NMR Studies of the Effect of Molecular Structure on Nitrogen-Fluorine Coupling," Eddie D. Luzik, Jr., Frank B. Mallory, Clelia W. Mallory, and Patrick J. Carroll.
41. International Chemical Congress of Pacific Basin Societies, Honolulu, HI, December 17-22, **1989**, paper #0402, "Nuclear Spin Relaxation Measurements of Methyl Group Rotation Barriers in the Solid State," Frank B. Mallory, Clelia W. Mallory, Peter A. Beckmann, and Kathleen G. Conn.
42. Philadelphia Section Award Lecture, American Chemical Society Local Meeting, Philadelphia, PA, October 19, **1989**, "NMR Studies of the Influence of Molecular

- Structure on the Magnitudes of 'Through-Space' Nuclear Spin-Spin Coupling Constants," Frank B. Mallory.
43. 23rd Conference on Reaction Mechanisms, Boulder, CO, June 10-14, **1990**, "Nuclear Spin-Spin Coupling *via* Nonbonded Interactions: Dependence of N-F Coupling on Molecular Structure," Frank B. Mallory, Eddie D. Luzik, Jr., Clelia W. Mallory, and Patrick J. Carroll.
  44. Photochemistry Symposium in Honor of Michael Kasha, Tallahassee, FL, January 6-9, **1991**, "Fluorescence, Fluorescence-Excitation, and Absorption Spectra of *trans*-1-(2-Naphthyl)-2-phenylethene Conformers," Jack Saltiel, Donald F. Sears, Jr., Jong-Oh Choi, Ya-Ping Sun, David W. Eaker, Frank B. Mallory, and Clelia W. Mallory.
  45. 32nd National Organic Chemistry Symposium, Minneapolis, MN, June 16-20, **1991**, "NMR Studies of the Effect of Molecular Structure on 'Through-Space' Fluorine-Fluorine Nuclear Spin-Spin Coupling," Laura E. Fredenburgh and Frank B. Mallory.
  46. Tradeline Conference of University Buildings and Renovation Projects, Boston, MA, October 13-14, **1993**, "Armchair Tour of the Bryn Mawr College New Chemistry Building and Science Library," Frank B. Mallory.
  47. 25th Conference on Reaction Mechanisms, Notre Dame, IN, June 10-15, **1994**, "The Formation of Some Highly Hindered 4,5-Dialkylphenanthrenes by Stilbene Photocyclizations," Frank B. Mallory, Ling-Ling Cheng, Soon M. Oh, Karen R. Raksis, Clelia W. Mallory, and Patrick J. Carroll.
  48. 15th IUPAC Symposium on Photochemistry, Prague, Czech Republic, July 18, **1994**, "Unexpected Steric Effects on the Regioselectivity of Photocyclization of Some Meta-Substituted Stilbenes," Frank B. Mallory, Ling-Ling Cheng, Soon M. Oh, Karen R. Raksis, Aviva Ellenstein, Clelia W. Mallory, and Patrick J. Carroll.
  49. 34th National Organic Chemistry Symposium, Williamsburg, VA, June 11, **1995**, "Nuclear Spin-Spin Coupling *via* Nonbonded Interactions: FF Coupling Through Intervening Groups," Colleen K. Regan, Frank B. Mallory, and Clelia W. Mallory.
  50. International Chemical Congress of Pacific Basin Societies, Honolulu, HI, December 17-22, **1995**, paper #3294, "Novel Graphite Ribbons from Stilbene-like Photocyclizations," Frank B. Mallory, Kelly E. Butler, Amanda C. Evans, Emilie J. Brondyke, and Clelia W. Mallory.
  51. 31st ACS Middle Atlantic Regional Meeting, Villanova, PA, May 22, **1996**, paper #145, "Synthesis of Novel Graphite Ribbons," Frank B. Mallory, Kelly E. Butler, Amanda C. Evans, and Changqing Yang.
  52. 26th Conference on Reaction Mechanisms, Stony Brook, NY, June 7-12, **1996**, "[n]Phenacenes: A Family of Novel Graphite Ribbons," Frank B. Mallory, Kelly E. Butler, Amanda C. Evans, Emilie J. Brondyke, and Clelia W. Mallory.
  53. Gordon Research Conference on Order/Disorder in Solids, New London, NH, July 21-26, **1996**, "Methyl Groups: Observers of the State of Organic Solids," Peter A. Beckmann,

- Carolyn A. Buser-Doepner, Frank B. Mallory, Clelia W. Mallory, Katharine A. Martin, Jennifer L. Mosher, Mon Thiri Myaing, and Lidija Sekaric.
54. 213th ACS National Meeting, San Francisco, CA, April 13, **1997**, Paper #18, Division of Organic Chemistry, "A New Iterative Synthesis of [*n*]Phenacenes, a Family of Novel Graphite Ribbons," Frank B. Mallory, Kelly E. Butler, Emilie J. Brondyke, and Clelia W. Mallory.
  55. 35th National Organic Chemistry Symposium, San Antonio, Texas, June 23, **1997**, "Regioselectivity in the Photocyclization of Stilbenes with *m*-Alkyl Substituents," Frank B. Mallory, Eliana Saxon, Aviva Ellenstein, Soon M. Oh, Ling-Ling Cheng, Karen R. Raksis, Kelly E. Butler, Clelia W. Mallory, and Patrick J. Carroll.
  56. Gordon Research Conference on Physical Organic Chemistry, Plymouth, NH, July 3, **1997**, "Alkyl-Substituted [*n*]Phenacenes, A Family of Solubilized Graphite Ribbons," Frank B. Mallory, Kelly E. Butler, Emilie J. Brondyke, Clelia W. Mallory, Margaret E. Greenslade, Rupa Hiremath, and Phung L. Ngo.
  57. 27th Conference on Reaction Mechanisms, Pacific Grove, CA, July 1, **1998**, "Recent Investigations of the Photocyclization of Stilbenes Bearing Cyano Substituents," Frank B. Mallory, Phung L. Ngo, Eddie D. Luzik, Jr., Kelly E. Butler, and Clelia W. Mallory.
  58. Gordon Research Conference on Physical Organic Chemistry, Plymouth, NH, June 28, **1999**, "The Distance Dependence of Through-Space FF Nuclear Spin-Spin Coupling," Frank B. Mallory, Clelia W. Mallory, Kelly E. Butler, Mary Beth Lewis, Angell Qian Xia, Eddie D. Luzik, Jr., Laura E. Fredenburgh, Que N. Van, Michelle M. Francl, Chandra C. Wray, Christine Hann, Maryellen Nerz-Stormes, Patrick J. Carroll, and Lisa E. Chirlian.
  59. 28th Conference on Reaction Mechanisms, Madison, WI, June 24-29, **2000**, "On the Conceptual Relationship between Nuclear Spin-Spin Coupling through Hydrogen Bonds ( $^{15}\text{N}-\text{H}\cdots\text{N}^{15}$ ,  $^{19}\text{F}-\text{H}\cdots\text{F}^{19}$ , and  $^{15}\text{N}-\text{H}\cdots\text{O}=\text{C}^{13}$ ) and  $^{19}\text{F}^{19}\text{F}$  Nuclear Spin-Spin Coupling through Space," Frank B. Mallory.
  60. Philadelphia Organic Chemists' Club Award Lecture, Philadelphia, PA, October 26, **2000**, "[*n*]Phenacenes: A Family of Graphite Ribbons," Frank B. Mallory.
  61. International Chemical Congress of Pacific Basin Societies, Honolulu, HI, December 14-19, **2000**, paper #90002746, "Progress in the Synthesis of Large [*n*]Phenacenes: A Family of Graphite Ribbons," Frank B. Mallory, Kelly E. Butler, Amélie Bérubé, Eddie D. Luzik, Jr., and Clelia W. Mallory.
  62. 37th National Organic Chemistry Symposium, Bozeman, MT, June 10-14, **2001**, "Nuclear Spin-Spin Coupling through Hydrogen Bonds (*e.g.*,  $^{15}\text{N}-\text{H}\cdots\text{N}^{15}$ ,  $^{19}\text{F}-\text{H}\cdots\text{F}^{19}$ , and  $^{15}\text{N}-\text{H}\cdots\text{O}=\text{C}^{13}$ ) Can Be Related Conceptually to Through-Space  $^{19}\text{F}^{19}\text{F}$  Coupling," Frank B. Mallory.
  63. Gordon Research Conference on Magnetic Resonance, Bristol, RI, June 17-22, **2001**, "Methyl Group Rotation and Proton and Deuteron Zeeman Relaxation in Organic Solids," Peter A. Beckmann, Cecil Dybowski, Edward J. Gaffney, Clelia W. Mallory, and Frank B. Mallory.

64. Gordon Research Conference on Physical Organic Chemistry, Plymouth, NH, July 1-6, **2001**, "Nuclear Spin-Spin Coupling through Hydrogen Bonds (*e.g.*,  $^{15}\text{N}-\text{H}\cdots\text{N}^{15}$ ,  $^{19}\text{F}-\text{H}\cdots\text{F}^{19}$ , and  $^{15}\text{N}-\text{H}\cdots\text{O}=\text{C}^{13}$ ) Can Be Related Conceptually to Through-Space  $^{19}\text{F}^{19}\text{F}$  Coupling," Frank B. Mallory.
65. 10th International Symposium on Novel Aromatics, La Jolla, CA, August 4-8, **2001**, "Progress in the Synthesis of Large Monodisperse [*n*]Phenacenes, a Family of Graphite Ribbons," Frank B. Mallory, Kelly E. Butler, Amélie Bérubé, Eddie D. Luzik, Jr., and Clelia W. Mallory.
66. 38th National Organic Chemistry Symposium, Bloomington, IN, June 8-12, **2003**, "An Unprecedented Rearrangement in the Photocyclizations of Some Stilbene Analogs," Frank B. Mallory and Colleen K. Regan.
67. Gordon Research Conference on Physical Organic Chemistry, Plymouth, NH, June 29-July 4, **2003**, "An Unprecedented Rearrangement in the Photocyclizations of Some Stilbene Analogs," Frank B. Mallory, Colleen K. Regan, and Clelia W. Mallory.
68. 27th Annual Meeting of the Adhesion Society, Wilmington, NC, February 15-18, **2004**, "Stiffening of Engineering Polymers by Means of Ribbon-like and Plate-like Molecules," Lynn S. Penn, Julie C. Maillot, John Anthony, Marcia M. Payne, Brian D. Swiss, Frank B. Mallory, Kai Liu, and Ryan A. Miller.
69. 30th Conference on Reaction Mechanisms, Evanston, IL, June 25-28, **2004**, "Barriers to Rotation of Methyl and *tert*-Butyl Groups in Crystalline Solids," Frank B. Mallory, Xianlong Wang, Peter A. Beckmann, Michelle M. Francl, and Clelia W. Mallory.
70. 228th ACS National Meeting, Philadelphia, PA, August 22-28, **2004**, Paper #491, Division of Organic Chemistry, "Elucidation of the Mechanism of an Unprecedented Rearrangement in the Photocyclization of a Stilbene Analog," Colleen K. Regan and Frank B. Mallory.
71. 228th ACS National Meeting, Philadelphia, PA, August 22-28, **2004**, Paper #037, Division of Computational Chemistry, "Ab initio Studies of Methyl and *t*-Butyl Group Motions in Aromatic Molecular," Xianlong Wang, Peter A. Beckmann, Frank B. Mallory, and Michelle M. Francl.
72. 19th Technical Conference of the American Society for Composites, Atlanta, GA, October 17-20, **2004**, "Ribbon-like and Plate-like Molecules as Reinforcements for Polymer Matrices." Lynn S. Penn, Julie C. Maillot, John Anthony, Marcia M. Payne, Frank B. Mallory, Kai Liu, Ryan A. Miller, and Brian D. Swiss.
73. 16th Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, January 6-9, **2005**, "A Startling Rearrangement in a Stilbene-like Photocyclization," Frank B. Mallory, Colleen K. Regan, and Clelia W. Mallory.
74. 229th ACS National Meeting, San Diego, CA, March 16, **2005**, Paper #287, Division of Computers in Chemistry, "Ab Initio Studies of Methyl and *tert*-Butyl Group Internal

- Rotation in Aromatic Molecular Crystals," Xianlong Wang, Frank B. Mallory, Michelle M. Francl, and Peter A. Beckmann.
75. Gordon Research Conference on Magnetic Resonance, New London, CT, June 5-10, **2005**, "Low-Frequency H-1 and F-19 Spin-Lattice Relaxation in a Model Organic Solid," Peter A. Beckmann, Clelia W. Mallory, and Frank B. Mallory.
  76. Gordon Research Conference on Magnetic Resonance, New London, CT, June 5-10, **2005**, "CF<sub>3</sub> Rotation in 3-CF<sub>3</sub>-phenanthrene: Solid State F-19 and H-1 NMR Relaxation, X-ray Crystallography, and *ab initio* Electronic Configuration Calculations" Peter A. Beckmann, Jessie Rosenberg, Kerstin Nordstrom, Clelia W. Mallory, Michelle M. Francl, Frank B. Mallory, Xianlong Wang, and Arnold L. Rheingold.
  77. Gordon Research Conference on Physical Organic Chemistry, Plymouth, NH, June 26-July 1, **2005**, "Barriers to Rotation of Methyl and *tert*-Butyl Groups in Crystalline Solids," Frank B. Mallory, Xianlong Wang, Peter A. Beckmann, Michelle M. Francl, and Clelia W. Mallory.
  78. 11th International Symposium on Novel Aromatics, St. John's, Newfoundland, Canada, August 14-18, **2005**, "A Surprising Rearrangement in a Stilbene-like Photocyclization," Frank B. Mallory, Colleen K. Regan, and Clelia W. Mallory.
  79. 230th ACS National Meeting, Washington, D.C., August 28, **2005**, Paper #23, Division of Computers in Chemistry, "Internal Rotational Motions of Methyl, Trifluoromethyl, and *tert*-Butyl Groups in Crystalline Solids," Xianlong Wang, Frank B. Mallory, Peter A. Beckmann, and Michelle M. Francl.
  80. 17th Conference of the Inter-American Photochemical Society, Salvador, Brazil, June 10-17, **2006**, "Stilbene Photocyclization," Frank B. Mallory and Clelia W. Mallory.
  81. Gordon Research Conference on Physical Organic Chemistry, Plymouth, NH, June 24-29, **2007**, "Rotation Barriers for Methyl Groups in Crystalline Solids," Frank B. Mallory, Xianlong Wang, Peter A. Beckmann, and Clelia W. Mallory.
  82. 17th Biennial Philadelphia Organic Chemists' Club Day, Philadelphia, PA, May 14, **2009**, "Synthesis of Polyether-substituted [*n*]Phenacenes," Alyssa Bohen, Frank B. Mallory, and Clelia W. Mallory.
  83. 20th Winter Conference of the Inter-American Photochemical Society, St. Petersburg Beach, FL, January 2-5, **2010**, "One Bond Twist Photoisomerizations of *cis*-1-(3-Methyl-2-naphthyl)-2-phenylethene and *cis*-1,2-di(1-Methyl-2-naphthyl)ethene at 77 K in Glassy Methylcyclohexane," Stuart Hutchinson, Krishna S. R. Tallapragada, Katelyn Chitwood, Frank B. Mallory, Clelia W. Mallory, and Jack Saltiel.
  84. A Symposium in Celebration of Physical Organic Chemistry in Recognition of the Contributions of John E. Baldwin, Recipient of the American Chemical Society's 2010 James Flack Norris Award, Syracuse University, April 17, **2010**, "Deep-Seated Rearrangements in the Photocyclizations of Some Stilbene Derivatives," Frank B. Mallory.

85. 33rd Conference on Reaction Mechanisms, Amherst, MA, June 23-26, **2010**, "Deep-Seated Rearrangements in the Photocyclizations of Some Stilbene Derivatives," Frank B. Mallory.

**Other Research Talks (Without Abstracts)**

1. Villanova University	1960
2. Princeton University	1961
3. Sigma Xi Lecture, Bryn Mawr College	1961
4. California Institute of Technology	1962
5. Jet Propulsion Laboratory, Pasadena, CA	1962
6. New York University	1962
7. USDA Eastern Regional Laboratory, Philadelphia, PA	1962
8. Conference on Reaction Mechanisms, Brookhaven, NY	1962
9. The Johns Hopkins University	1963
10. SUNY Buffalo	1963
11. California Institute of Technology	1964
12. Oregon State University	1964
13. University of California, Berkeley	1964
14. California Institute of Technology	1964
15. Conference on Reaction Mechanisms, Corvallis, OR	1964
16. Wyeth Laboratories, Radnor, PA	1964
17. University of Rochester	1964
18. Hahneman Medical College, Philadelphia, PA	1964
19. The Catholic University of America	1965
20. Cornell University	1965
21. Syracuse University	1966
22. Polytechnic Institute of Brooklyn	1966
23. J. T. Baker Chemical Company, Phillipsburg, NJ	1966
24. McNeil Laboratories, Inc., Fort Washington, PA	1966
25. ACS Local Meeting, Syracuse, NY	1967
26. ACS Local Meeting, Potsdam, NY	1967
27. ACS Local Meeting, Binghamton, NY	1967
28. ACS Local Meeting, Norwich, NY	1967
29. ACS Local Meeting, Norwich, NY	1967
30. ACS Local Meeting, Troy, NY	1967
31. ACS Local Meeting, Poughkeepsie, NY	1967
32. University of Pennsylvania	1967
33. California Institute of Technology	1968
34. Linear Free Energy Conference, Irvine, CA	1968
35. University of Connecticut	1968
36. New York University	1968
37. ACS Lecture Series, North Jersey Section	1968
38. ACS Lecture Series, North Jersey Section	1968
39. ACS Lecture Series, North Jersey Section	1968
40. ACS Lecture Series, North Jersey Section	1968
41. ACS Local Meeting, South Jersey Section	1968
42. University of Pittsburgh	1969

43.	Drexel Institute of Technology	1969
44.	Case Western Reserve University	1969
45.	Gordon Research Conference, Tilton, NH	1969
46.	SUNY Albany	1970
47.	Cornell University	1970
48.	Ithaca College, Ithaca, NY	1971
49.	ACS Local Meeting, Easton, PA	1971
50.	Cornell University	1971
51.	Villanova University	1971
52.	Manhattan College, Riverdale, NY	1971
53.	University of Colorado	1972
54.	Temple University	1972
55.	Vassar College	1972
56.	The Johns Hopkins University	1972
57.	New York University	1973
58.	Temple University	1974
59.	Drexel University	1974
60.	La Salle College, Philadelphia, PA	1974
61.	CUNY, Hunter College	1974
62.	ACS Local Meeting, Toms River, NJ	1975
63.	University of Pennsylvania	1976
64.	SUNY Albany	1976
65.	Rensselaer Polytechnic Institute	1976
66.	University of Connecticut	1977
67.	Dartmouth College	1978
68.	Dartmouth College	1978
69.	Amherst College	1978
70.	Yale University	1979
71.	Villanova University	1979
72.	La Salle College, Philadelphia, PA	1980
73.	Lehigh University	1981
74.	University of Maryland	1981
75.	Cornell University	1983
76.	Millersville State College, Millersville, PA	1983
77.	Temple University	1984
78.	University of Chicago	1984
79.	University of Nebraska	1984
80.	Gordon Research Conference, Andover, NH	1985
81.	Temple University	1987
82.	Syracuse University	1988
83.	Purdue University	1989
84.	University of Colorado	1989
85.	University of Minnesota	1989
86.	George Washington University	1990
87.	University of Pittsburgh	1990
88.	Ursinus College	1990
89.	Rutgers University, New Brunswick, NJ	1991

90.	City University of New York, Queens College	1997
91.	Bryn Mawr College Provost's Colloquium	2003
92.	Haverford College	2005
93.	Drexel University	2008

### Supported Research

1.	Research Corporation, 1958-1959, Photochemistry of Stilbenes	\$3,500
2.	Research Corporation, 1959-1961, Photochemistry of Stilbenes	3,500
3.	Research Corporation, 1961, Unrestricted Grant	7,500
4.	Office of Naval Research, 1960-1965, Identification of Steroids and Triterpenoids in <i>Tetrahymena pyriformis</i>	33,171
5.	NSF (Chemistry), 1963-1966, Benzofurazan Oxides and Related Heterocycles	49,300
6.	Alfred P. Sloan Foundation, 1964-1966, Unrestricted Grant	17,500
7.	Alfred P. Sloan Foundation, 1966-1968, Unrestricted Grant	20,000
8.	NSF (Metabolic Biology), 1966-1969, The Metabolism of Cholesterol by <i>Tetrahymena pyriformis</i> (GB-4605)	43,100
9.	NSF (Chemistry), 1969-1972, Diamagnetic Anisotropy and Long-Range Nuclear Spin-Spin Coupling in Acetylenes and Arenes (GP-10640)	40,000
10.	NSF (Metabolic Biology), 1969-1971, The Effect of Sterols and Pentacyclic Triterpene Alcohols on Membrane Lipid Composition (GB-12133)	30,000
11.	NIH National Heart Institute), 1969-1974, Regulation of Triterpene Alcohol (Biosynthesis (HE-12872)	90,897
12.	NSF (Metabolic Biology), 1972-1974, The Effect of Sterols and Pentacyclic Triterpene Alcohols on Membrane Lipid Compositions (GB-32944)	35,000
13.	Petroleum Research Fund (ACS), 1973-1975, Studies in NMR Spectroscopy: Diamagnetic Anisotropy of Acetylenes and Benzenes, and Long-Range Fluorine-Fluorine Coupling (6763-AC2,4)	20,000
14.	Petroleum Research Fund (ACS), 1975-1979, Studies in NMR Spectroscopy: Diamagnetic Anisotropy of Acetylenes and Benzenes, and Through-Space Through-Space Coupling Involving Fluorine (8625-AC4-C)	24,000
15.	Research Corporation, 1984, NMR Measurements of Through-Space Nuclear Spin-Spin Coupling, and Photochemical Studies of Stilbenes and Related Molecules	6,000
16.	NSF (Chemistry), 1984, Travel Grant to IUPAC Photochemistry Symposium in Interlaken, Switzerland	800
17.	Camille and Henry Dreyfus Foundation, 1984, Grant Toward Purchase of Equipment for Combined Mass Spectrometry and Gas Chromatography	25,000
18.	NIH (National Institute of General Medicine), 1985-1988 Regioselectivity in the Photocyclization of Stilbenes (GM-36083-01)	78,062
19.	NSF (Chemistry), 1988, Travel Grant, IUPAC Photochemistry Symposium in Bologna, Italy	650
20.	Pew Science Program (Mid-Atlantic Cluster), 1989, NMR and X-Ray Investigations of the Dependence on Molecular Structure of the Magnitude of "Through-Space" Nuclear Spin Coupling Involving Fluorine Nuclei	8,450
21.	Pew Science Program (Mid-Atlantic Cluster) 1991, X-Ray Crystallographic Studies of Anomalous C-F Bond Distances in Certain Disordered Crystals	4,000

22.	NSF (Chemistry), 1994, Travel Grant, IUPAC Photochemistry Symposium in Prague, Czech Republic	600
23.	Petroleum Research Fund (ACS), 1998-2000 (extended), Synthesis and Characteri- zation of Nanoscale Alkyl-Substituted [n]Phenacenes: A Family of Solubilized Monodisperse Polycyclic Aromatic Hydrocarbon Derivatives (32796-AC1)	60,000
24.	NIH (National Institute of General Medicine), 1998-2001 Nanoscale Polycyclic Aromatic Hydrocarbon Derivatives (GM-57647-01)	103,346
25.	Bristol-Myers Squibb Chemistry Organization, 2001 Undergraduate Research Award in Organic Chemistry, The Development of Methods for the Synthesis of Phenacenes	5,000
26.	NSF (Civil and Mechanical Systems Division), 2001-2002, Nanoscale Composites Based on Carbon Ribbons (CMS-0102166) (in collaboration with (Lynn S. Penn, U. of Kentucky, Dept. of Chemical and Materials Engineering)	69,998
27.	Petroleum Research Fund (ACS), 2003-2004, a New Iterative Synthesis of an Oligomeric Set of Solubilized, Monodisperse, Nanoscale [n]Phenacenes - a Family of Graphite Ribbons (40101-AC1)	40,000
28.	Petroleum Research Fund (ACS), 2004-2006, Synthesis and Characterization of an Oligomeric Set of Solubilized, Monodisperse, Nanoscale [n]Phenacenes (41685-AC1)	80,000
29.	Bryn Mawr College Faculty Research Fund, 2006 The Synthesis of [n]Phenacenes of Unprecedented Lengths	<u>5,000</u>
	<b>TOTAL</b>	<b>\$904,374</b>

### Research Currently in Progress

1. The synthesis of some large [n]phenacenes ("graphene ribbons") of unprecedented lengths in collaboration with Clelia W. Mallory and several students.
2. The synthesis of some previously unknown donor-bridge-acceptor molecules having [n]phenacenes as the bridging groups ("molecular wires") in collaboration with Clelia W. Mallory and several students.
3. Studies of the scope and mechanism of the photocyclization of some atypical stilbene-like molecules in collaboration with Clelia W. Mallory and Joseph M. Bohen.
4. Nuclear spin relaxation experiments and computational studies of the rotations of methyl, *tert*-butyl, and trifluoromethyl and methoxy substituents in molecular solids in collaboration with Peter A. Beckmann, Xianlong Wang, and Clelia W. Mallory.

### Ph.D. Dissertations Supervised

- |    |                          |            |
|----|--------------------------|------------|
| 1. | Janice T. Gordon         | Ph.D. 1961 |
| 2. | Clelia S. Wood (Mallory) | Ph.D. 1963 |
| 3. | Suzanne P. Varimbi       | Ph.D. 1963 |
| 4. | John W. Raniseski        | Ph.D. 1967 |
| 5. | Chung Wha Lee Iyengar    | Ph.D. 1968 |
| 6. | Thomas E. Colman         | Ph.D. 1970 |
| 7. | Karen A. Ferguson        | Ph.D. 1971 |
| 8. | Mary T. Arnold           | Ph.D. 1973 |
| 9. | Lynn Penn                | Ph.D. 1974 |

10.	Donna S. Amenta	Ph.D. 1974
11.	Wendella M. Ricker	Ph.D. 1974
12.	Mary B. Baker	Ph.D. 1976
13.	Sissel Lund-Katz	Ph.D. 1979
14.	Barbara P. Schick	Ph.D. 1979
15.	Anne M. Belcher	Ph.D. 1981
16.	M. Jonathan Rudolph	Ph.D. 1988
17.	Eddie D. Luzik, Jr.	Ph.D. 1991
18.	Susan L. Fitzpatrick	Ph.D. 1993
19.	Kelly E. Butler	Ph.D. 2001
20.	Vincent Xianlong Wang	Ph.D. 2006
21.	Alyssa A. Bohlen	Ph.D. in progress

### **M.A. Theses Supervised**

1.	Janice T. Gordon	M.A. 1958
2.	Clelia S. Wood (Mallory)	M.A. 1960
3.	Lois C. Lindquist (West)	M.A. 1960
4.	Alice C. Swift	M.A. 1962
5.	Charles M. Evers	M.A. 1962
6.	Lynn Penn	M.A. 1970
7.	Donna S. Amenta	M.A. 1971
8.	Mary B. Baker	M.A. 1971
9.	Mercy M. Ramanjulu	M.A. 1992
10.	Kelly E. Butler	M.A. 1996
11.	Angell Qian Xia	M.A. 1998
12.	Emily Chopko	M.A. 2001
13.	Amélie Bérubé	M.A. 2001
14.	Rebecca J. Aspden	M.A. 2002
15.	Kai Liu	M.A. 2003
16.	Kirbi Krisfalusi	M.A. 2005
17.	Alyssa A. Bohlen	M.A. 2006
18.	Ellen Sakell	M.A. 2008
19.	Meghan Molloy	M.A. 2008

### **Postdoctoral Research Associates**

1.	Janice T. Gordon	1961-1965
2.	Bhuwan S. Joshi	1961-1962
3.	Clelia W. Mallory	1963-1977 (volunteer 1978 – present)
4.	Suzanne P. Varimbi	1964-1965
5.	Arthur Cammarata	1964-1965
6.	Ingeborg I. Schuster	1965-1967
7.	Mary B. Baker	1976-1979
8.	Soon M. Oh	1986-1988
9.	Changqing (Daniel) Yang	1995-1996
10.	Eddie D. Luzik, Jr.	1997-1998; 1999
11.	Colleen K. Regan	2002-2007
12.	Joseph M. Bohlen	2007 – present (volunteer)

## Undergraduate Research Students

<u>Acad. Year</u>	<u>Student</u>	<u>Summer</u>	<u>Student</u>
1957-1958	Lois E. Callahan (West) Maxine B. Lazarus (Savitz)	1958	Lois E. Callahan (West) Maxine B. Lazarus (Savitz)
1958-1959	Clelia S. Wood (Mallory)	1959	Kathleen E. Schueller (Richardson) Clelia S. Wood (Mallory)
1960-1961	Carol A. Loeb (Kandall)	1960	Catherine L. Clarke (Fenselau Cotter)
1961-1962	Janice M. Richman (Sufrin)	1961	Carol A. Loeb (Kandall) Janice M. Richman (Sufrin)
1964-1965	Ellen J. Halpern (Kauffman)	1962	Diane M. Falcione (Sturman)
1965-1966	Jih-Jen Joy Chiang (Cheung)	1963	Ellen J. Halpern (Kauffman) Barbara M. Hurwitz (Harley-Hyman) Roberta Yaffe
1966-1967	Terry L. Newirth (Hirshorn)	1965	Jih-Jen Joy Chiang (Cheung)
1968-1969	Mary-Clare Fedarko (Roberts) Kate E. Kurshan (Matthay)	1966	Carol A. Banquer
1969-1970	Susan C. Weil (Dreyfuss)	1967	Betsy Alvord (LaButti) Terry L. Newirth (Hirshorn)
1971-1972	Marie A. Bernard (Jenkins) Janet Roeser (Fritock)	1969	Carol A. Johnson (Laquer)
1982-1983	Debbie E. Fishbein (Schiller)	1970	Carole A. Johnson (Laquer)
1983-1984	Linda C. Bush Stephanie E. Sen Susan L. Swindle (Bontems) Marie Tani	1973	Isabella Knox
1984-1985	Linda C. Bush Nancy M.-H. Lim (Kim) Josephine N. Rini Emma L. Robinson	1976	Julius Guarino
1985-1986	Carolyn A. Buser (Buser-Doepner)	1983	Susan L. Swindle (Bontems) Marie Tani
1986-1987	Ling-Ling Cheng	1984	Ellen N. Behrend Nancy M.-H. Lim (Kim) Josephine N. Rini
1987-1988	Robin M. Hathorn	1985	Carolyn Buser (Buser-Doepner) Nancy M.-H. Lim (Kim)
1990-1991	Laura E. Fredenburgh Christine Hann	1986	Ling-Ling Cheng
1991-1992	Kelly E. Butler Helen Y. Wu (Chen)	1989	Laura E. Fredenburgh
		1990	Laura E. Fredenburgh Christine Hann Lucille N. Lee
		1991	Rachel M. Guest Christine K. Hu Helen Y. Wu (Chen)
		1992	Kelly E. Butler Mary Beth Lewis

1992-1993	Kelly E. Butler Maia Whang	1993	Chandra C. Wray (Raabole) Aviva Ellenstein Mary Beth Lewis Que N. Van Maia Whang
1993-1994	Mary Beth Lewis Karen R. Raksis Charlotte Troyanowski Que N. Van Maia Whang (Arteel) Chandra C. Wray (Raabole)	1994	Aviva Ellenstein Amanda C. Evans Mary Beth Lewis Colleen K. Regan Lori Summers
1994-1995	Aviva Ellenstein Amanda C. Evans Colleen K. Regan Lori Summers	1995	Emilie J. Brondyke Aviva Ellenstein Amanda C. Evans Colleen K. Regan
1995-1996	Amanda C. Evans	1996	Emilie J. Brondyke Amanda C. Evans Eliana Saxon Purvi R. Shah
1996-1997	Emilie J. Brondyke Amanda C. Evans Dana A. Freed Eliana Saxon Purvi R. Shah	1997	Emilie J. Brondyke Margaret E. Greenslade Rupa Hiremath Phung L. Ngo Eliana Saxon
1997-1998	Margaret E. Greenslade Rupa Hiremath Phung L. Ngo	1998	Rupa Hiremath Carmela Magcalas Phung L. Ngo Karen E. Taverna
1998-1999	Karen E. Taverna	1999	Rebecca J. Aspden Jennifer K. Sabo Jacqueline D. Welter
1999-2000	Jacqueline D. Welter Christine K. Chiou	2000	Rebecca J. Aspden Camilla R. Sulak Sooyoun Yi
2000-2001	Rebecca J. Aspden	2001	Rebecca J. Aspden Ahmara V. Gibbons Abigail I. Nash Sarah C. Welsh
2001-2002	Rebecca J. Aspden Modjolie A. King	2002	Katherine A. DiFelice Ahmara V. Gibbons Ryan A. Miller Abigail I. Nash Hillary J. Van Anda
2002-2003	Ahmara V. Gibbons Abigail I. Nash Sarah C. Welsh	2003	Annie Butler Darae Ko Kirbi N. Krisfalusi
2003-2004	Annie Butler	2004	Annie Butler

	Katherine A. DiFelice Kirbi N. Krisfalusi Victoria Semenyuk Hillary J. Van Anda		Leila Foroughi Kirbi Krisfalusi Siobhan Lawler Joy Racowski
2004-2005	Annie Butler Leila Foroughi Kirbi Krisfalusi Joy Racowski Dustin Raup	2005	Annie Butler Wynne Kandur Joy Racowski Dustin Raup Alessandra Samero
2005-2006	Wynne Kandur Dustin Raup Alessandra Samero	2006	Alessandra Samero Caroline (Carrie) Womack
2006-2007	Alessandra Samero	2007	Caroline (Carrie) Womack Maureen Waweru
2007-2008	Caroline (Carrie) Womack Maureen Waweru	2008	Kate Butler Amber Hopkins Maureen Waweru
2008-2009	Kate Butler Amber Hopkins Maureen Waweru	2009	Kate Butler Ariana Hall June Mbae Kim Mullane Eesha Sheikh
2009-2010	Ariana Hall June Mbae Kim Mullane	2010	Alex Ashley Ariana Hall Kim Mullane
2010-2011	Alex Ashley Ariana Hall Kim Mullane	2011	Ellen Butler Ariana Hall Kim Mullane
2011-2012	Ariana Hall Kim Mullane	2012	(Ellen Butler)
2012-2013	(Ellen Butler)		

### Courses Taught at Bryn Mawr College

#### *General Chemistry*

Semester I: 1958-9, 1959-0, 1960-1, 1961-2, 1962-3, 1964-5, 1965-6, 1967-8, 1968-9, 1971-2.

Semester II: 1958-9, 1961-2.

#### *Organic Chemistry*

Semester I: 1985-6, 1986-7, 1987-8, 1989-0, 1990-1, 1991-2, 1992-3, 1993-4, 1994-5 (two sections), 1996-7 (two sections), 1997-8 (two sections), 1998-9 (two sections), 1999-0 (two sections), 2000-1 (two sections),

- 2001-2 (two sections), 2003-4 (two sections), 2004-5 (two sections), 2005-6 (two sections), 2007-8 (two sections), 2008-9 (two sections), 2009-10 (two sections).
- Semester II: 1957-8, 1959-0, 1960-1, 1961-2, 1962-3, 1964-5, 1965-6, 1966-7, 1968-9, 1969-0, 1971-2, 1972-3, 1973-4, 1975-6, 1976-7, 1983-4.
- Organic Chemistry Laboratory**
- Semester I: 1982-3, 1983-4, 1984-5.
- Semester II: 1957-8, 1959-0, 1960-1, 1961-2, 1962-3, 1964-5, 1965-6, 1966-7, 1968-9, 1969-0, 1971-2, 1972-3, 1973-4, 1975-6, 1976-7, 1982-3, 1983-4, 1984-5.
- Advanced Organic Chemistry**
- Semester I: 1957-8, 1958-9, 1959-0, 1960-1, 1961-2, 1962-3, 1964-5, 1965-6, 1966-7, 1967-8, 1968-9, 1969-0, 1971-2, 1972-3, 1973-4, 1974-5, 1975-6, 1976-7, 1979-0, 1982-3, 1983-4, 1987-8, 1999-0.
- Semester II: 1973-4, 1984-5, 1985-6, 1986-7, 1989-0, 1990-1, 1991-2, 1992-3, 1993-4, 1994-5, 1995-6, 1996-7, 1997-8, 1998-9, 2000-1, 2001-2, 2002-3, 2003-4, 2004-5, 2005-6, 2006-7, 2007-8, 2008-9.
- Advanced Organic Chemistry Laboratory** (*course discontinued after 1991-92*)
- Semester I: 1957-8, 1958-9, 1959-0, 1960-1, 1961-2, 1962-3, 1964-5, 1965-6, 1966-7, 1967-8, 1968-9, 1969-0, 1971-2, 1972-3, 1974-5, 1975-6, 1976-7, 1979-0.
- Semester II: 1973-4.
- Senior Conference** (*course discontinued after 1982-83*)
- 1957-8, 1958-9, 1959-0, 1960-1, 1961-2, 1962-3, 1964-5, 1965-6, 1966-7, 1967-8, 1968-9, 1969-0, 1971-2, 1972-3, 1973-4, 1974-5, 1975-6, 1976-7, 1980-1.
- Graduate Courses and Seminars**
- Free Radicals 1958-9.
- Synthesis 1959-0, 1960-1, 1962-3, 1975-6, 1976-7.
- Photochemistry 1964-5, 1966-7, 1979-0, 1985-6.
- Spectroscopy 1965-6, 1969-0.
- Mechanisms 1972-3.
- Physical Organic 1986-7, 1987-8, 1991-2, 1993-4, 1994-5, 1996-7, 1997-8, 1998-9, 1999-0, 2000-1, 2001-2, 2003-4, 2004-5, 2006-7, 2007-8, 2008-9.

## **Bryn Mawr College Activities**

- Committee on Undergraduate Scholarships, 1959-1962
- United Fund Committee, 1960-1962
- Committee on the Undergraduate Curriculum, 1965-1968 and 1971-1974
- Committee on Graduate Awards, 1968-1970; Chairman, 1969-1970
- Committee on Fringe Benefits, 1969-1974; Chairman, 1969-1970
- Committee on the Long-Term Needs of the College, 1971-1972
- Search Committee for Graduate School of Arts and Sciences Dean, 1971-1972; Chairman
- Committee on Biochemistry, 1971-present; Chairman 1974-1977
- Faculty Representative to the Board of Trustees, 1971-1974
- Central Committee for the Tenth Decade Fund-Raising Campaign, 1972-1976
- Bryn Mawr-Haverford Bi-College Committee on Cooperation, 1973-1976

Committee for the Coordination of the Sciences, 1974-1992; Chairman, 1975-1989  
 Acting Chairman of the Department of Chemistry, 1974  
 Committee on Academic Planning, 1976-1977  
 Chairman of the Department of Chemistry, 1982-1992  
 Committee on Appointments, 1982-1987; Chairman, 1986-1987  
 Committee to Review the Summer School Program, 1982-1983  
 Panelist, Graduate School and Alumnae Workshop on the Academic Job Search, 1983  
 Planning Committee for the Science Complex, 1983-1988  
 Panelist, Discussions on the Arts at Bryn Mawr, 1983-1984  
 Committee on Research Contract Guidelines, 1985-1987  
 Committee on Faculty Awards and Grants, 1986-1987  
 Task Force on the Undergraduate Honor Code, 1987  
 Committee of 30 Departmental Representatives, 1987; Chairman  
 Committee on Academic Planning, 1987-1988  
 Planning, Design, and Supervision of New Construction and Renovation  
 of Chemistry Facilities, 1988-1993  
 Committee on Institutional Animal Care and Use, 1989-1990  
 Committee on Libraries, 1990-1991  
 Council of the Division of General Studies, 1991-1994  
 Council of the Graduate School of Arts and Sciences, 1992-1995  
 Committee to Supervise the Ph.D. Degree, 1992-1995; Chairman 1993-1995  
 Committee on Postbaccalaureate Admissions, 1992-1995  
 Search Committee for the Director of the Arts Program, 1993  
 Search Committee for the Assistant Dean in Charge of the Postbaccalaureate Program, 1993  
 Task Force on Bryn Mawr as a Community, 1993-1994; Co-chairman  
 Ad hoc Committee to Nominate Candidates for the Position of Provost, 1994; Chairman  
 Search Committee for an Assistant Director of Facilities Services, 1995  
 Ad Hoc Committee to Evaluate an Appeal from a Graduate Student, 1996; Chairman  
 Advisory Committee to the Dean of the Graduate School of Arts and Sciences, 1996  
 Ad Hoc Committee to Evaluate a Tenure Decision Appeal from a Faculty Member, 1997  
 Committee on Laboratories, 1997-present, Chair 2007-present  
 Search Committee for the Chief Advancement Officer and Secretary of the College, 1998  
 Committee on Undergraduate Admissions, 1998-2001  
 Ad Hoc Committee to Solicit Faculty Evaluations of the Provost, 1998; Chairman  
 Council of the Undergraduate College, 2001-2006  
 Posse Selection Group, 2005  
 Council of the Graduate School of Arts and Sciences, 2007  
 Committee on Graduate Awards of the Graduate School of Arts and Sciences, 2007, 2008  
 Council on Undergraduate Academic Standing, 2007-2010, Chair  
 Faculty Search Committees: Chemistry (19), Chemistry at Haverford (3), Biology (3),  
 Physics (2), Theatre (2), Music at Haverford (2), Mathematics (1), Cities (1), English (1)

**Musical Performances** (*The names of student performers are underlined.*)

1. Trio in E-flat Major, K. 498, by Wolfgang Amadeus Mozart (arr. Mallory), performed January 30, **1983** at Cornell University by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the Friends of Music of Cornell University.

2. Dance Preludes for Clarinet and Piano by Witold Lutoslawski, performed January 30, **1983** at Cornell University by Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the Friends of Music of Cornell University.
3. Varianti for Flute, Clarinet, and Piano by Steven Stucky, performed January 30, **1983** at Cornell University by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the Friends of Music of Cornell University. (First performance.)
4. Deux Interludes by Jacques Ibert (arr. Mallory), performed January 30, **1983** at Cornell University by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the Friends of Music of Cornell University.
5. Pastorale by Igor Stravinsky (arr. Mallory), performed January 30, **1983** at Cornell University by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the Friends of Music of Cornell University.
6. Suite (1936) by Darius Milhaud (arr. Mallory), performed January 30, **1983** at Cornell University by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the Friends of Music of Cornell University.
7. Trio in E-flat Major K. 498, by Wolfgang Amadeus Mozart (arr. Mallory), performed March 1, **1983** at Bryn Mawr College by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano.
8. Deux Interludes by Jacques Ibert (arr. Mallory), performed March 1, **1983** at Bryn Mawr College by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano.
9. Dance Preludes for Clarinet and Piano by Witold Lutoslawski, performed March 1, **1983** at Bryn Mawr College by Frank Mallory, clarinet, and Charlotte Greenspan, piano.
10. Varianti for Flute, Clarinet, and Piano by Steven Stucky, performed March 1, **1983** at Bryn Mawr College by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano.
11. Suite (1936) by Darius Milhaud (arr. Mallory, 1982), performed March 1, **1983** at Bryn Mawr College by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano.
12. Pastorale by Igor Stravinsky (arr. Mallory), performed March 1, **1983** at Bryn Mawr College by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano.
13. Fantasistykker for Piano and Clarinet, Op. 43, by Niels W. Gade, performed March 25, **1984** at Bryn Mawr College by Frank Mallory, clarinet, and David Schuster, piano.
14. Six Studies in English Folk-Song by Ralph Vaughan Williams, performed March 25, **1984** at Bryn Mawr College by Frank Mallory, clarinet, and David Schuster, piano.

15. Sonata for Clarinet and Piano by Francis Poulenc, performed March 25, **1984** at Bryn Mawr College by Frank Mallory, clarinet, and David Schuster, piano.
16. Fantasia-Pastorale, Op. 84, by John Davison, performed March 25, **1984** at Bryn Mawr College by Frank Mallory, clarinet, John Chesick, cello, and David Schuster, piano. (First performance.)
17. Trio in A Minor, Op. 114, by Johannes Brahms, performed March 25, **1984** at Bryn Mawr College by Frank Mallory, clarinet, John Chesick, cello, and David Schuster, piano.
18. Bethena, a Concert Waltz, by Scott Joplin (arr. Mallory), performed March 25, **1984** at Bryn Mawr College by Frank Mallory, clarinet, John Chesick, cello, and David Schuster, piano.
19. Fantasistykker for Piano and Clarinet, Op. 43, by Niels W. Gade, performed April 8, **1984** at New York University by Frank Mallory, clarinet, and David Schuster, piano.
20. Six Studies in English Folk-Song by Ralph Vaughan Williams, performed April 8, **1984** at New York University by Frank Mallory, clarinet, and David Schuster, piano.
21. Sonata for Clarinet and Piano by Francis Poulenc, performed April 8, **1984** at New York University by Frank Mallory, clarinet, and David Schuster, piano.
22. Fantasia-Pastorale, Op. 84, by John Davison, performed April 8, **1984** at New York University by Frank Mallory, clarinet, John Chesick, cello, and David Schuster, piano.
23. Trio in A Minor, Op. 114, by Johannes Brahms, performed April 8, **1984** at New York University by Frank Mallory, clarinet, John Chesick, cello, and David Schuster, piano.
24. Bethena, a Concert Waltz, by Scott Joplin (arr. Mallory), performed April 8, **1984** at New York University by Frank Mallory, clarinet, John Chesick, cello, and David Schuster, piano.
25. Fantasistykker for Piano and Clarinet, Op. 43, by Niels W. Gade, performed July 22, **1984** at Interlaken, Switzerland by Frank Mallory, clarinet, and David Schuster, piano, sponsored by the International Union of Pure and Applied Chemistry Symposium on Photochemistry.
26. Six Studies in English Folk-Song by Ralph Vaughan Williams, performed July 22, **1984** at Interlaken, Switzerland by Frank Mallory, clarinet, and David Schuster, piano, sponsored by the International Union of Pure and Applied Chemistry Symposium on Photochemistry.
27. Dance Preludes for Clarinet and Piano by Witold Lutoslawski, performed July 22, **1984** at Interlaken, Switzerland by Frank Mallory, clarinet, and David Schuster, piano, sponsored by the International Union of Pure and Applied Chemistry Symposium on Photochemistry.
28. Sonata for Clarinet and Piano by Francis Poulenc, performed July 22, **1984** at Interlaken, Switzerland by Frank Mallory, clarinet, and David Schuster, piano, sponsored by the International Union of Pure and Applied Chemistry Symposium on Photochemistry.

29. Bruder Lustig (arr. Charles Wels), performed July 22, **1984** at Interlaken, Switzerland by David Schuster, piano, and Frank Mallory, piano, sponsored by the International Union of Pure and Applied Chemistry Symposium on Photochemistry.
30. Trio No. 3 in C Minor, Op. 1, No. 3, by Ludwig van Beethoven (arr. Mallory), performed December 12, **1984** at Bryn Mawr College by David Reibstein, piano, Frank Mallory, clarinet, and Paul Melvin, sponsored by the Bryn Mawr College Office for the Arts. (First performance.)
31. Deux Interludes by Jacques Ibert (arr. Mallory), performed December 12, **1984** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and David Reibstein, piano, sponsored by the Bryn Mawr College Office for the Arts.
32. Suite by Darius Milhaud (arr. Mallory), performed January 25, **1985** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and David Reibstein, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
33. Berceuse No. 1, from Dolly Suite by Gabriel Faurè (arr. Mallory), performed January 25, **1985** at Bryn Mawr College by Frank Mallory, clarinet, Paul Melvin, cello, and Jane Wilkinson, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
34. Trio in E-flat Major, K. 498, by Wolfgang Amadeus Mozart, performed March 24, **1985** at Bryn Mawr College by Frank Mallory, clarinet, Gretchen Gillis, viola, and David Reibstein, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
35. Märchenerzählungen (Fairy Tales), Op. 132, by Robert Schumann, performed March 24, **1985** at Bryn Mawr College by Frank Mallory, clarinet, Gretchen Gillis, viola, and David Reibstein, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
36. Three Pieces from Op. 83 by Max Bruch, performed March 24, **1985** at Bryn Mawr College by Frank Mallory, clarinet, Gretchen Gillis, viola, and Ketty Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
37. Hungarian Dance No. 1 by Johannes Brahms (arr. Mallory), performed March 24, **1985** at Bryn Mawr College by Frank Mallory, clarinet, Gretchen Gillis, viola, Ketty Nez, piano, and David Reibstein, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
38. Piece for Clarinet by Jane Wilkinson performed February 14, **1986** at Bryn Mawr College by Frank Mallory, clarinet, as part of the Faculty Dance Recital sponsored by the Bryn Mawr College Office for the Arts. (First performance.)
39. Der Hirt auf dem Felsen (The Shepherd on the Rocks) by Franz Schubert performed April 9, **1986** at Bryn Mawr College by Agnes Klauder, soprano, Michele Scanlon, piano, and Frank Mallory, clarinet, sponsored by the Bryn Mawr College Office for the Arts.
40. Dance Preludes for Clarinet and Piano by Witold Lutoslawski, performed April 20, **1986** at Bryn Mawr College by Frank Mallory, clarinet, and David Reibstein, piano, sponsored by the Chamber Music Society at Bryn Mawr College.

41. Quintet in A Major, K. 581, by Wolfgang Amadeus Mozart, performed April 20, **1986** at Bryn Mawr College by Frank Mallory, clarinet, Laurie Landers, violin, Anne Murdy, violin, Gretchen Gillis, viola, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
42. Piece for Clarinet by Jane Wilkinson, performed October 5, **1986** at Bryn Mawr College by Frank Mallory, clarinet, sponsored by the Chamber Music Society at Bryn Mawr College.
43. Trio No. 3 in C Minor, Op. 1, No. 3, by Ludwig van Beethoven (arr. Mallory), performed November 8, **1986** at Bryn Mawr College by David Reibstein, piano, Frank Mallory, clarinet, and Paul Melvin, sponsored by the Chamber Music Society at Bryn Mawr College.
44. Fantasy Trio, Op. 26, by Robert Muczynski, performed November 8, **1986** at Bryn Mawr College by Frank Mallory, clarinet, Paul Melvin, cello, and Ketty Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
45. Trio in A minor, Op. 114, by Johannes Brahms, performed November 8, **1986** at Bryn Mawr College by Frank Mallory, clarinet, Paul Melvin, cello, and Ketty Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
46. Quintet in E-flat Major, K. 452, by Wolfgang Amadeus Mozart, performed February 15, **1987** at Bryn Mawr College by David Reibstein, piano, Karen Greif, oboe, Frank Mallory, clarinet, David Hall, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
47. Piece for Clarinet by Jane Wilkinson performed March 20, **1987** at Haverford College by Frank Mallory, clarinet, sponsored by the Music Department of Haverford College.
48. Four Old Tunes by Gordon Jacob, performed May 24, **1987** at the home of Edna Phillips Rosenbaum in Mt. Airy, PA by Jerrold Meinwald, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon.
49. Divertissement by Marcel Bitsch, performed May 24, **1987** at the home of Edna Phillips Rosenbaum in Mt. Airy, PA by Jerrold Meinwald, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon.
50. Quatour by Jean Françaix, performed May 24, **1987** at the home of Edna Phillips Rosenbaum in Mt. Airy, PA by Jerrold Meinwald, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon.
51. Trois Pièces pour une Musique de Nuit by Eugène Bozza, performed May 24, **1987** at the home of Edna Phillips Rosenbaum in Mt. Airy, PA by Jerrold Meinwald, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon.
52. Cascades by Scott Joplin, performed May 24, **1987** at the home of Edna Phillips Rosenbaum in Mt. Airy, PA by Jerrold Meinwald, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon.

53. First movement (Breit) from the Octet by Paul Hindemith, performed August 15, **1987** at Bennington College by Mike Kong, violin, Eve Cohen, viola, Albert Wray, viola, Rick Mooney, cello, Rich Sosinsky, bass, Frank Mallory, clarinet, Carolyn Clark, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
54. First movement (Allegro) from Mládí by Leos Janacek, performed August 15, **1987** at Bennington College by Roger Brooks, flute, Karen Greif, oboe, Dianne Mahany, clarinet, Frank Mallory, bass clarinet, Carolyn Clark, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
55. Divertimento No. 4 in B-flat Major, K. 439d, by Wolfgang Amadeus Mozart, performed February 21, **1988** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
56. Kleine Kammermusik, Op. 24, No. 2, by Paul Hindemith, performed February 21, **1988** at Bryn Mawr College by Sarah Herr, flute, Karen Greif, oboe, Frank Mallory, clarinet, Elaine Richards, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
57. Quintet for Piano and Winds in E-flat Major, Op. 16 (1795/96), by Ludwig van Beethoven, performed February 21, **1988** at Bryn Mawr College by Virginia Nez, piano, Karen Greif, oboe, Frank Mallory, clarinet, Elaine Richards, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
58. Quintet for Clarinet and Strings in B Minor, Op. 115 (1891) by Johannes Brahms, performed April 15, **1988** at Bryn Mawr College by Frank Mallory, clarinet, Britany Orlebeke, violin, Ashley Hill, violin, Marit Danielson, viola, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
59. Third movement (Gavotte) from the Sextet in B-flat Major, Op. 6, by Ludwig Thuille, performed August 20, **1988** at Bennington College by Terry Wager, flute, Jane Deckoff, oboe, Frank Mallory, clarinet, Mary Olsson, bassoon, Marc Wager, horn, and Jonathan Newmark, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
60. Sonata in F Minor, Op. 120, No. 1, by Johannes Brahms, performed October 7, **1988** at Bryn Mawr College by Frank Mallory, clarinet, and Virginia Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
61. Suite for Oboe, Clarinet, and Viola by Randall Thompson, performed November 20, **1988** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Mary Rorro, viola, sponsored by the Chamber Music Society at Bryn Mawr College.
62. Suite for Violin, Clarinet, and Piano (1936) by Darius Milhaud, performed November 20, **1988** at Bryn Mawr College by Britany Orlebeke, violin, Frank Mallory, clarinet, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College.

63. Septet for Wind Instruments by Paul Hindemith, performed February 12, **1989** at Neumann College in Aston, PA by Anne Segermark, flute, Cheryl Ciccarone, oboe, Lynn Thomas, clarinet, Frank Mallory, bass clarinet, Mike Kelly, horn, Sarah Myers, bassoon, and Paul Burgmayer, trumpet, sponsored by the Delaware County Symphony.
64. Quintet in D Major, Op. 91, No. 3, by Anton Reicha, performed March 5, **1989** at Bryn Mawr College by Andrea Bial, flute, Karen Greif, oboe, Frank Mallory, clarinet, Elizabeth Hubbell, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
65. Sonatine by Jane Wilkinson, performed March 5, **1989** at Bryn Mawr College by Karen Greif, English horn, and Frank Mallory, bass clarinet, sponsored by the Chamber Music Society at Bryn Mawr College. (First performance.)
66. Sextet in B-flat Major, Op. 6, by Ludwig Thuille, performed March 5, **1989** at Bryn Mawr College by Andrea Bial, flute, Karen Greif, oboe, Frank Mallory, clarinet, Elizabeth Hubbell, horn, Hugh Rosenbaum, bassoon, and Virginia Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
67. Dance Preludes for Clarinet and Piano by Witold Lutoslawski, performed June 21, **1989** at Ithaca College, Ithaca, NY by Frank Mallory, clarinet, David Schuster, piano, sponsored by the 31st National Organic Chemistry Symposium of the American Chemical Society.
68. Varianti for Flute, Clarinet, and Piano by Steven Stucky, performed June 21, **1989** at Ithaca College in Ithaca, NY by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the 31st National Organic Chemistry Symposium of the American Chemical Society.
69. Märchenerzählungen (Fairy Tales), Op. 132, by Robert Schumann, performed June 21, **1989** at Ithaca College in Ithaca, NY by Frank Mallory, clarinet, Melissa Stucky, viola, and Charlotte Greenspan, piano, sponsored by the 31st National Organic Chemistry Symposium of the American Chemical Society.
70. Selections from Paraphrases for Two Pianists by Alexander Borodin, performed June 21, **1989** at Ithaca College in Ithaca, NY by David Schuster, piano, and Frank Mallory, piano, sponsored by the 31st National Organic Chemistry Symposium of the American Chemical Society.
71. Nocturne from String Quartet No. 2 by Alexander Borodin (arr. Mallory), performed June 21, **1989** at Ithaca College in Ithaca, NY by Jerrold Meinwald, flute, Frank Mallory, clarinet, Melissa Stucky, viola, and Charlotte Greenspan, piano, sponsored by the 31st National Organic Chemistry Symposium of the American Chemical Society.
72. Tarantella for Flute, Clarinet, and Piano by Camille Saint-Saëns, performed June 21, **1989** at Ithaca College in Ithaca, NY by Jerrold Meinwald, flute, Frank Mallory, clarinet, Melissa Stucky, viola, and David Schuster, piano, sponsored by the 31st National Organic Chemistry Symposium of the American Chemical Society.
73. Hungarian Dance No. 1 by Johannes Brahms (arr. Mallory), performed June 21, **1989** at Ithaca College in Ithaca, NY by Jerrold Meinwald, flute, Frank Mallory, clarinet, Melissa

- Stucky, viola, David Schuster, piano, and Charlotte Greenspan, piano, sponsored by the 31st National Organic Chemistry Symposium of the American Chemical Society.
74. Second movement (Andante un poco mosso) from the Octet, Op. 166, by Franz Schubert, performed August 12, **1989** at Bennington College by Niki Matsoukas, violin, Ruth Ellen Proudfoot, violin, Jonathan Newmark, viola, Richard Gotlib, cello, Bertram Turetzky, bass, Frank Mallory, clarinet, Rhoda Valentine, horn, and Mary Olsson, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
  75. Nocturne, Op. 83, No. 6, by Max Bruch, performed November 19, **1989** at Bryn Mawr College by Frank Mallory, clarinet, Mary Rorro, viola, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
  76. Sonata in E-flat Major, Op. 120, No. 2, by Johannes Brahms, performed November 19, **1989** at Bryn Mawr College by Frank Mallory, clarinet, and Virginia Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
  77. Trio Concertante in C Major by Ignaz Pleyel, performed March 4, **1990** at Bryn Mawr College by Andrea Bial, flute, Frank Mallory, clarinet, and Rebecca Nowlin, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  78. First movement (Moderato poco allegro) from the Serenade by Bohuslav Martinu performed August 18, **1990** at Bennington College by Richard Lederman, violin, Jonathan Newmark, viola, Mathew Rosen, cello, Frank Mallory, clarinet, and Janet Johnson, clarinet, sponsored by the Chamber Music Conference and Composer's Forum of the East.
  79. Quator by Jean Françaix, performed October 7, **1990** at Bryn Mawr College by Andrea Bial, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Rebecca Nowlin, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  80. Serenata by Alfredo Casella, performed October 7, **1990** at Bryn Mawr College by Frank Mallory, clarinet, Rebecca Nowlin, bassoon, Paul Burgmayer, trumpet, Catherine Foster, violin, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
  81. Trio in C Major, Op. 87, by Ludwig van Beethoven (arr. Mallory), performed October 10, **1990** at the University of Pennsylvania by Karen Greif, oboe, Frank Mallory, clarinet, and Jonathan Newmark, viola, sponsored by the Du Pont - Marshall Lecture Program of the University of Pennsylvania.
  82. Suite for Oboe, Clarinet, and Viola by Randall Thompson, performed October 10, **1990** at the University of Pennsylvania by Karen Greif, oboe, Frank Mallory, clarinet, and Jonathan Newmark, viola, sponsored by the Du Pont - Marshall Lecture Program of the University of Pennsylvania.
  83. Nocturne, Op. 83, No. 6, by Max Bruch, performed January 26, **1991** at Haverford College by Frank Mallory, clarinet, Mary Rorro, viola, and Sharon Burgmayer, piano, sponsored by the Music Department of Haverford College.

84. Quator by Jean Françaix, performed March 2, **1991** at Bryn Mawr College by Andrea Bial, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Rebecca Nowlin, bassoon, sponsored by Bryn Mawr College.
85. Piece for Clarinet by Jane Wilkinson, performed March 5, **1991** at Haverford College sponsored by the Music Department of Haverford College.
86. Quartet in E-flat Major, Op. 2, by Bernard Crusell, performed April 10, **1991** at Bryn Mawr College by Frank Mallory, clarinet, Gillian Bunker, violin, Caroline Cunningham, viola, and Claire Yannacone, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
87. First movement (Andante tranquillo - Allegro assai) from Wind Quintet No. 1 by Jean Françaix, performed August 7, **1991** at Bennington College by Roger Brooks, flute, Karen Greif, oboe, Frank Mallory, clarinet, Jim Dunne, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
88. First movement (Allegro vivace) from the Sextuor by Francis Poulenc, performed August 12, **1991** at Bennington College by Roger Brooks, flute, Sylvia Lipnick, oboe, Frank Mallory, clarinet, Sue Larsen, horn, Haskel Edelstein, bassoon, and Kay Cynamon, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
89. A suite of three Slavonic Dances of Antonín Dvorák, Op. 46, No. 8, Op. 72, No. 8, and Op. 46, No. 3, arranged by Frank Mallory for flute, cello, and piano, and performed September 14, **1991** at the Ethical Society, Rittenhouse Square, Philadelphia, by the Huntingdon Trio (Diane Gold, flute, Lloyd Smith, cello, and Rheta Smith, piano).
90. A suite of three Slavonic Dances of Antonín Dvorák, Op. 46, No. 8, Op. 72, No. 8, and Op. 46, No. 3, arranged by Frank Mallory for flute, cello, and piano, and performed October 20, **1991** at Bucknell University, Lewisburg, Pennsylvania by the Huntingdon Trio (Diane Gold, flute, Lloyd Smith, cello, and Rheta Smith, piano).
91. Quintet in G Minor, Op. 56, No. 2, by Franz Danzi, performed November 17, **1991** at Bryn Mawr College by Andrea Bial, flute, Karen Greif, oboe, Frank Mallory, clarinet, Victoria Lepore, horn, and Rebecca Nowlin, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
92. "Parto, ma tu ben mio" from La Clemenza di Tito, K.621, by Wolfgang Amadeus Mozart, performed November 17, **1991** at Bryn Mawr College by Hope Hoffman Miller, mezzo-soprano, Frank Mallory, clarinet, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
93. Quintet in A Major, K. 581, by Wolfgang Amadeus Mozart, performed November 17, **1991** at Bryn Mawr College by Frank Mallory, clarinet, Catherine Foster, violin, Dulani Kulasinghe, violin, Charles Jackson, viola, and Ingrid Nelson, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
94. Second movement (Larghetto) from the Quintet in A Major, K. 581, by Wolfgang Amadeus Mozart, performed November 26, **1991** at Bryn Mawr College in a memorial service for Ellen Reisner by Frank Mallory, clarinet, Catherine Foster, violin, Dulani

- Kulasinghe, violin, Charles Jackson, viola, and Ingrid Nelson, cello, sponsored by the President of Bryn Mawr College.
95. "Parto, ma tu ben mio" from La Clemenza di Tito, K.621, by Wolfgang Amadeus Mozart, performed December 2, **1991** at St. Luke Lutheran Church in Devon, PA by Hope Hoffman Miller, mezzo-soprano, Frank Mallory, clarinet, and Kathy Shanklin, piano, sponsored by the Musical Coterie of Wayne.
  96. Quartet in C for Woodwinds by Arthur Berger, performed April 12, **1992** at Bryn Mawr College by Adele Swank, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Amy Weidman, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  97. Third movement (Scherzo) from the Octet, Op. 166, by Franz Schubert, performed August 5, **1992** at Bennington College by Jo Margaret Farris, violin, Sally Yamashita, violin, Fan Tao, viola, Ann Franke, cello, David Webber, bass, Frank Mallory, clarinet, Alan Katz, horn, and Haskell Edelstein, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
  98. Quintet in E-flat Major, Op. 16, by Ludwig van Beethoven, performed November 15, 1992 at Bryn Mawr College by Emily Bengels, piano, Karen Greif, oboe, Frank Mallory, clarinet, Victoria Lepore, horn, and Rebecca Nowlin, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  99. Sonatine by Jane Wilkinson, performed February 28, **1993** at Bryn Mawr College by Karen Greif, English horn, and Frank Mallory, bass clarinet, sponsored by the Chamber Music Society at Bryn Mawr College.
  100. Partita by Irving Fine, performed February 28, **1993** at Bryn Mawr College by Adele Swank, flute, Karen Greif, oboe, Frank Mallory, clarinet, Angela Stavropoulos, horn, and Rebecca Nowlin, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  101. Sextet by Gordon Jacob, performed April 25, **1993** at Bryn Mawr College by Adele Swank, flute, Karen Greif, oboe and English horn, Frank Mallory, clarinet, Angela Stavropoulos, horn, Rebecca Nowlin, bassoon, and Jennifer Zarutskie, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
  102. Suite from K. 399 and K. 574 by Wolfgang Amadeus Mozart (arr. Mallory), performed May 8, **1993** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon, sponsored by the Bryn Mawr College Office for the Arts.
  103. Rondo, K. 331, by Wolfgang Amadeus Mozart (arr. Mallory), performed May 8, **1993** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Hugh Rosenbaum, bassoon, sponsored by the Bryn Mawr College Office for the Arts.
  104. Second movement (Sehr langsam) from the Quartet (1938) by Paul Hindemith, performed August 14, **1993** at Bennington College by Frank Mallory, clarinet, Curtis Carlson, violin, Donald Howarth, cello, and Mike Kong, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.

105. First movement (Allegro) from the Quintet in B Minor, Op. 115, by Johannes Brahms, performed August 21, **1993** at Bennington College by Frank Mallory, clarinet, Albert Wray, violin, Morton Raff, violin, Louise Lerner, viola, and Deborah Black, cello, in a master class given by Isidore Cohen sponsored by the Chamber Music Conference and Composer's Forum of the East.
106. Three movements (Introduction, Motetus, and Isorhythms) from the Turetzky Pieces by Charles Wuorinen, performed August 21, **1993** at Bennington College by Beth Anderson, flute, Frank Mallory, clarinet, and David Webber, bass, sponsored by the Chamber Music Conference and Composer's Forum of the East.
107. Quintet in E-flat Major, K. 452, by Wolfgang Amadeus Mozart, performed October 15, **1993** at Bryn Mawr College by Michael Isador, piano, Karen Greif, oboe, Frank Mallory, clarinet, Angela Stavropoulos, horn, and Justin Miller, bassoon, sponsored by the Chamber Music Society of Bryn Mawr College.
108. Fantasia-Pastorale, Op. 84, by John Davison, performed October 15, **1993** at Bryn Mawr College by Frank Mallory, clarinet, Julie Regan, cello, and John Davison, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
109. Trio in A minor, Op. 114, by Johannes Brahms, performed October 15, **1993** at Bryn Mawr College by Frank Mallory, clarinet, Julie Regan, cello, and Michael Isador, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
110. First movement (Allegro con brio) from the Trio in B-flat Major, Op. 11, by Ludwig van Beethoven, performed August 10, **1994** at Bennington College by Frank Mallory, clarinet, Martin Meyers, cello, and Diana Kong, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
111. Two movements (Adagio and Vivace) from the Quintette by Jacques Hétu, performed August 17, **1994** at Bennington College by Linda Rapp, flute, Sylvia Lipnick, oboe, Frank Mallory, clarinet, Sue Larsen, horn, and Norma Kerlin, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
112. Fourth movement (Sehr lebhaft) from the Octet by Paul Hindemith, performed August 17, **1994** at Bennington College by Larry Kohorn, violin, Eve Cohen, viola, Louise Lerner, viola, Francine Chapman, cello, David Webber, bass, Frank Mallory, clarinet, Sue Larsen, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
113. Sonata for Clarinet and Piano by Francis Poulenc, performed February 26, **1995** at Bryn Mawr College by Frank Mallory, clarinet, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
114. Czech Suite, Op. 39, by Antonín Dvořák (arr. Mallory), performed April 9, **1995** at Bryn Mawr College by Leslie Clifton, flute, Karen Greif, oboe and English horn, Leslie Burnick, clarinet, Frank Mallory, bass clarinet, Rachel Braddick, horn, and Justin Miller, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College. (First performance.)

115. Third movement (Scherzo) from the *Petite Symphonie* by Charles Gounod, performed August 9, **1995** at Bennington College by Roger Brooks, flute, Sylvia Lipnick and Martin Lipnick, oboes, Frank Mallory and Janet Johnson, clarinets, Ted Freed and Rachel Braddick, horns, and Abby Wells and Norma Kerlin, bassoons, sponsored by the Chamber Music Conference and Composer's Forum of the East.
116. First movement (Allegro) from the *Woodwind Quintet* by Alan Shawn, performed August 9, **1995** at Bennington College by Roger Brooks, flute, Karen Greif, oboe, Frank Mallory, clarinet, James Dunne, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
117. Second movement (Adagio) from the *Trio in A Minor, Op. 114*, by Johannes Brahms, performed August 12, **1995** at Bennington College by Frank Mallory, clarinet, Donald Howarth, cello, and Harry Green, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
118. First movement (Allegro moderato) from the *Wind Quintet* by Gustav Holst, performed August 19, 1995 at Bennington College by Terry Wager, flute, Sylvia Lipnick, oboe, Frank Mallory, clarinet, James Dunne, horn, and Bill Katz, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
119. Second movement (Vivace) from the *Quintet for Clarinet and Strings, Op. 146*, by Max Reger, performed August 19, **1995** at Bennington College by Frank Mallory, clarinet, Karen Gilbert and Ramona Matthews, violins, Paula Washington, viola, and Keith Kendig, cello, sponsored by the Chamber Music Conference and Composer's Forum of the East.
120. Suite from *L'Histoire du Soldat* by Igor Stravinsky, performed October 22, **1995** at Bryn Mawr College by Carol Stein Amado, violin, Frank Mallory, clarinet, and Michael Isador, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
121. *Phantasiestücke, Op. 73*, by Robert Schumann, performed March 27, **1996** at the University of Pennsylvania by Frank Mallory, clarinet, and David Reibstein, piano.
122. *Pastorale* by Igor Stravinsky (arr. Mallory), performed April 25, **1996** at Library Hall in Philadelphia by Jerrold Meinwald, flute, Frank Mallory, clarinet, and David Reibstein, piano, sponsored by the American Philosophical Society.
123. *Phantasiestücke, Op. 73*, by Robert Schumann, performed April 25, **1996** at Library Hall in Philadelphia by Frank Mallory, clarinet, and David Reibstein, piano, sponsored by the American Philosophical Society.
124. *Poetic Syntheses*, musical settings by Jane Wilkinson of poems by Carl Djerassi, performed April 25, **1996** at Library Hall in Philadelphia by Jerrold Meinwald, flute, Charlotte Greenspan, piano, and Frank Mallory, speaker, sponsored by the American Philosophical Society.
125. First, second, and fourth movements from the *Suite for Violin, Clarinet, and Piano* by Darius Milhaud (arr. Mallory), performed April 25, **1996** at Library Hall in Philadelphia by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the American Philosophical Society.

126. Waltz for Flute, Clarinet, and Piano by Dmitry Shostakovich (arr. Atoumyan), performed April 25, **1996** at Library Hall in Philadelphia by Jerrold Meinwald, flute, Frank Mallory, clarinet, and Charlotte Greenspan, piano, sponsored by the American Philosophical Society.
127. Quintet for Clarinet and Strings in B Minor, Op. 115 (1891) by Johannes Brahms, performed April 28, **1996** at Bryn Mawr College by Frank Mallory, clarinet, Carol Stein Amado, violin, Marie Davis, violin, Dominique Johnson, viola, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
128. Two movements (Quickstep, Charleston) from Dance Suite for Wind Quintet by Norman Hallam, performed August 10, **1996** at Bennington College by Debra Schild, flute, Carl Schlaikjer, oboe, Frank Mallory, clarinet, Marc Wager, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
129. Third movement (Allegro scherzando) from Trois Pièces Brève by Jacques Ibert, performed August 10, **1996** at Bennington College by Trish Maxon, flute, Karen Moses, oboe, Frank Mallory, clarinet, Alan Katz, horn, and Haskell Edelstein, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
130. First movement (Risoluto) from the Sextuor by Jean Françaix, performed August 14, **1996** at Bennington College by Linda Rapp, flute, Karen Greif, oboe, Shirley Roe, clarinet, Frank Mallory, bass clarinet, Jane Hollander, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
131. First movement (Allegro vivace) from the Sextuor by Francis Poulenc, performed August 17, **1996** at Bennington College by Linda Rapp, flute, Carl Schlaikjer, oboe, Frank Mallory, clarinet, Paula Silbey, horn, Bill Katz, bassoon, and Ruth Alperson, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
132. Palm Court Music by James Sellars, performed October 20, **1996** at Bryn Mawr College by Carol Amado, violin, Frank Mallory, clarinet, Robert Black, bass, and Michael Isador, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
133. Quintet in A Major, K. 581, by Wolfgang Amadeus Mozart, performed February 23, **1997** at Bryn Mawr College by Frank Mallory, clarinet, Carol Amado, violin, Marie Davis, violin, Dominique Johnson, viola, and Heidi Jacob, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
134. Sophia at Sunrise, poetry by Margaret Holley and musical setting by Jane Wilkinson, performed April 18, **1997** at Bryn Mawr College by Barbara Sonies, violin, Frank Mallory, clarinet and bass clarinet, Heidi Jacob, cello, and Margaret Holley, speaker, sponsored by Bryn Mawr College. (First performance.)
135. First movement (Allegretto) from the Woodwind Quintet (1948) by Elliott Carter, performed August 9, **1997** at Bennington College by Beth Anderson, flute, Jane Deckoff, oboe, Frank Mallory, clarinet, James Dunne, horn, and Haskell Edelstein, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.

136. Fourth, fifth, and sixth movements (Andantino, Maestoso, and Piacevole) from the Divertimento by Malcolm Arnold, performed August 16, **1997** at Bennington College by Roger Brooks, flute, Karen Greif, oboe, and Frank Mallory, clarinet, sponsored by the Chamber Music Conference and Composer's Forum of the East.
137. Second movement (Adagio) from the Trio in A Minor, Op. 114, by Johannes Brahms, performed October 5, **1997** in a memorial concert for Carol Amado at Bryn Mawr College by Frank Mallory, clarinet, Paul Melvin, cello, and Michael Isador, piano, sponsored by the Bryn Mawr College Office for the Arts.
138. Suite for Oboe, Clarinet, and Viola by Randall Thompson, performed October 19, **1997** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Dominique Johnson, viola, sponsored by the Chamber Music Society at Bryn Mawr College.
139. Trio No. 3 in C Minor, Op. 1, No. 3, by Ludwig van Beethoven (arr. Mallory), performed October 19, **1997** at Bryn Mawr College by Michael Isador, piano, Frank Mallory, clarinet, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
140. Second movement (Scherzino) from the Suite for Trio D'Anches by Alexandre Tansman, performed August 5, **1998** at Bennington College by Carl Schlaikjer, oboe, Frank Mallory, clarinet, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
141. Third movement (Rondeaux Allegretto) from the Trio in E-flat Major, K. 498, by Wolfgang Amadeus Mozart, performed August 8, **1998** at Bennington College by Frank Mallory, clarinet, Eve Cohen, viola, and Mike Kong, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
142. First movement (Allegretto) from the Suite for Wind Quintet by Ruth Crawford-Seeger, performed August 12, **1998** at Bennington College by Roger Books, flute, Karen Greif, oboe, Frank Mallory, clarinet, Jim Dunne, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
143. First movement (Barn Dance) and fourth movement (Tom Cats) from Opus Number Zoo (1925) by Luciano Berio, performed August 4, **1999** at Bennington College by Roger Brooks, flute, Karen Greif, oboe, Frank Mallory, clarinet, Jim Dunne, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
144. Quintet (1983) by Robert Simpson, performed August 7, **1999** at Bennington College by Ruth Klein, violin, Jonathan Newmark, viola, Martin Meyers, cello, Dianne Mahany, clarinet, and Frank Mallory, bass clarinet, sponsored by the Chamber Music Conference and Composer's Forum of the East.
145. Third movement (Allegretto) from the Nonet (1959) by Bohuslav Martinu, performed August 7, **1999** at Bennington College by Peggy Greb, flute, Karen Greif, oboe, Frank Mallory, clarinet, Marc Wager, horn, Hans Cats, bassoon, Ruth Klein, violin, Eve Cohen, viola, Valerie Matthews, cello, and Timothy Carter, bass, sponsored by the Chamber Music Conference and Composer's Forum of the East.

146. Fourth movement (Finale: Presto) from the Octet in E-flat Major, Op. 103, by Ludwig van Beethoven, performed August 14, **1999** at Bennington College by Jane Deckoff, oboe, Zeke Hecker, oboe, Frank Mallory, clarinet, Dianne Mahany, clarinet, Rosemary Waltzer, horn, Jim Dunne, horn, Haskel Edelstein, bassoon, and Zafer Ponter, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
147. First movement from the Septet (1953) by Igor Stravinsky, performed August 19, **2000** at Bennington College by Frank Mallory, clarinet, Jane Hollander, horn, Hugh Rosenbaum, bassoon, Larry Kohorn, violin, Eve Cohen, viola, Sue Rangeley, cello, and Kay Cynamon, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
148. Quintet in A Major, K. 581 (1789), by Wolfgang Amadeus Mozart, performed November 3, **2000** at Bryn Mawr College by Frank Mallory, clarinet, Karen Jenks, violin, Yaya Liem, violin, Alisa Seavey, viola, and Janet Lee, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
149. Suite for Oboe, Clarinet, and Viola by Randall Thompson, performed November 3, **2000** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Federico Piantini, viola, sponsored by the Chamber Music Society at Bryn Mawr College.
150. Kvell (1997) by Salvatore Macchia, performed July 28, **2001** at Colgate University by Linda Rapp, flute, Frank Mallory, clarinet, and David Webber, bass, sponsored by the Chamber Music Conference and Composer's Forum of the East. (First performance.)
151. Excerpts from Pierrot Lunaire (#4, Eine blasse Wäscherin; #12, Galgenlied; #13, Enthauptung) by Arnold Schoenberg, performed August 15, **2001** at Bennington College by Eve Cohen, violin and viola, Melanie Yarger, cello, Roger Brooks, flute and piccolo, Frank Mallory, clarinet and bass clarinet, and Valerie Mathews, voice, sponsored by the Chamber Music Conference and Composer's Forum of the East.
152. First movement (Allegretto giocoso) from the Woodwind Quintet No. 2 by Frigyes Hidas, performed August 15, **2001** at Bennington College by Martha Somach, flute, Martin Lipnick, oboe, Frank Mallory, clarinet, Rosemary Walters, horn, and Nancy Switkes Bell, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
153. Suite for Violin, Clarinet, and Piano (1936) by Darius Milhaud, performed October 27, **2001** at Bryn Mawr College by Janet Pinkow, violin, Frank Mallory, clarinet, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
154. Duos for Flute and Clarinet, Op. 34, by Robert Muczynski, performed February 9, **2002** at Bryn Mawr College by Eden Kahle, flute, and Frank Mallory, clarinet, sponsored by the Office of Special Academic Programs of Bryn Mawr College.
155. Chôros No. 2 for Flute and Clarinet by Heitor Villa-Lobos, performed February 9, **2002** at Bryn Mawr College by Eden Kahle, flute, and Frank Mallory, clarinet, sponsored by the Office of Special Academic Programs of Bryn Mawr College.
156. Quintet in D Major, Op. 91, No. 3 by Anton Reicha, performed May 11, **2002** at Bryn Mawr College by Roger Brooks, flute, Karen Greif, oboe, Frank Mallory, clarinet, James Dunne, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.

157. Wind Quintet No. 2 (2001) by Allen Shawn, performed May 11, **2002** at Bryn Mawr College by Roger Brooks, flute, Karen Greif, oboe, Frank Mallory, clarinet, James Dunne, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College. (First performance.)
158. Wind Quintet No. 2 (2001) by Allen Shawn, performed August 6, **2002** at Bennington College by Roger Brooks, flute, Karen Greif, oboe, Frank Mallory, clarinet, James Dunne, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
159. First and second movements from the Quartettino (1960) by Reszo Kokai, performed August 10, **2002** at Bennington College by Frank Mallory, clarinet, Tom Frenkel, violin, Margaret Shimizu, viola, and Stephanie Wingfield, cello, sponsored by the Chamber Music Conference and Composer's Forum of the East.
160. Quintet for Clarinet and Strings in B Minor, Op. 115 (1891) by Johannes Brahms, performed October 27, **2002** at Bryn Mawr College by Frank Mallory, clarinet, Geoffrey Michaels, violin, Karen Jenks, violin, Alison Avery, viola, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
161. Fantasy in F Minor, Op. 103, D. 940 (1828) by Franz Schubert (arr. Mallory), performed March 2, **2003** at Bryn Mawr College by Federico Piantini, violin, Frank Mallory, clarinet, Paul Melvin, cello, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College. (First performance.)
162. First movement (Allegro moderato) from the Sextett for Clarinet, Horn, String Trio, and Piano (2000) by Krzysztof Penderecki, performed August 13, **2003** at Bennington College by Frank Mallory, clarinet, Stephen Taylor, horn, Stephen Lustig, violin, Eve Cohen, viola, Sue Rangeley, cello, and Kay Cynamon, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
163. Fifth movement (Allegro precipitato, ma non troppo presto) from the Quintet for Oboe, Clarinet, Violin, Viola, and Bass, Op. 39 (1924) by Sergei Prokofiev, performed August 16, **2003** at Bennington College by Karen Greif, oboe, Frank Mallory, clarinet, Markus Rettenmayr, violin, Chalmers Smith, viola, and Yasu Suzuki, bass, sponsored by the Chamber Music Conference and Composer's Forum of the East.
164. Fourth movement (Finale, allegro molto) from the Serenade in D Minor, Op. 44 (1878) by Antonín Dvorák, performed August 16, **2003** by Bobby Kipp, oboe, Marty Lipnick, oboe, Frank Mallory, clarinet, Janet Johnson, clarinet, Stephen Taylor, horn, Alan Katz, horn, James Dunne, horn, Abby Wells, bassoon, Nancy Switkes Bell, bassoon, Evan Dunnell, cello, and Yasu Suzuki, bass, sponsored by the Chamber Music Conference and Composer's Forum of the East.
165. Duet (1748) by Carl Philipp Emanuel Bach (arr. Mallory), performed October 26, **2003** at Bryn Mawr College by Hillary Smith, violin, and Frank Mallory, clarinet, sponsored by the Chamber Music Society at Bryn Mawr College. (First performance.)

166. Quatuor (1933) by Jean Françaix, performed October 26, **2003** at Bryn Mawr College by Lindsey Cobbett, flute, Karen Greif, oboe, Frank Mallory, clarinet, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
167. Divertimento No. 3 in B-flat Major, K. 439c (1783) by Wolfgang Amadeus Mozart, performed February 29, **2004** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Neal Williams, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
168. Gigue in G Minor, K. 574 (1789) by Wolfgang Amadeus Mozart (arr. Mallory), performed February 29, **2004** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Neal Williams, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
169. Quintet in A Major, K. 581 (1789) by Wolfgang Amadeus Mozart, performed February 29, **2004** at Bryn Mawr College by Frank Mallory, clarinet, Geoffrey Michaels, violin, Christine Cottle, violin, Alison Avery, viola, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
170. Duet (1748) by Carl Philipp Emanuel Bach (arr. Mallory), performed October 10, **2004** at the Stone House at Lake Ganoga, Pennsylvania by Frank Mallory, clarinet and Norma Gillespie, cello, sponsored by the Ganoga Lake Association. (First performance.)
171. Quintet in A Major, K. 581 (1789) by Wolfgang Amadeus Mozart, performed October 10, **2004** at the Stone House at Lake Ganoga, Pennsylvania by Frank Mallory, clarinet, Jennifer Updegrove, violin, Nora Nugent, violin, Jeannette Garber, viola, and Norma Gillespie, cello, sponsored by the Ganoga Lake Association.
172. Kvell (1997) by Salvatore Macchia, performed October 24, **2004** at the Clay Studio in Philadelphia by Heather Fortune, flute, Frank Mallory, clarinet, and David Webber, bass.
173. Two Interludes (1949) by Jacques Ibert (arr. Mallory), performed October 30, **2004** at Bryn Mawr College by Hillary Smith, violin, Frank Mallory, clarinet, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
174. Suite for Oboe, Clarinet, and Bassoon (1949) by Alexandre Tansman, performed October 30, **2004** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
175. Trio in E-flat Major, K. 498 (1786) by Wolfgang Amadeus Mozart, performed October 30, **2004** at Bryn Mawr College by Frank Mallory, clarinet, Alison Avery, viola, and Janet Ahlquist, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
176. Six Studies in English Folksong (1926) by Ralph Vaughan Williams (arr. Mallory, 2003), performed February 26, **2005** at Bryn Mawr College by Hillary Smith, violin, Alison Avery, viola, Paul Melvin, cello, Karen Greif, oboe/English horn, Frank Mallory, clarinet/bass clarinet, and Neal Williams, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College. (First performance.)

177. Quintet for Piano and Winds in E-flat Major, Op. 16 (1795/96), by Ludwig van Beethoven, performed February 26, **2005** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, Rachel Braddick, horn, Neal Williams, bassoon, and Janet Ahlquist, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
178. Four movements (Adagio, Andante sostenuto, Larghetto, Lento) from Six Studies in English Folksong (1926) by Ralph Vaughan Williams, performed in memory of Julie Painter on April 22, **2005** at Bryn Mawr College by Frank Mallory, clarinet, and Angelyn Wishnack MacWilliams, piano.
179. First movement from Elegies (1974) by Peter Schickele, performed in memory of Julie Painter on April 22, **2005** at Bryn Mawr College by Frank Mallory, clarinet, and Angelyn Wishnack MacWilliams, piano.
180. Second movement (Andante un poco Adagio) from the Sonata in F minor for Clarinet and Piano, Op. 120, No. 1 (1894) by Johannes Brahms, performed in memory of Julie Painter on April 22, **2005** at Bryn Mawr College by Frank Mallory, clarinet, and Angelyn Wishnack MacWilliams, piano.
181. Prelude, Allegro, and Pastorale (1941) by Rebecca Clarke, performed October 29, **2005** at Bryn Mawr College by Alison Avery, viola, and Frank Mallory, clarinet, sponsored by the Chamber Music Society at Bryn Mawr College.
182. Trio in A Minor, Op. 114, by Johannes Brahms, performed October 29, **2005** at Bryn Mawr College by Frank Mallory, clarinet, Paul Melvin, cello, and Ketty Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
183. Serenade No. 12 in C Minor, KV 388 (1783) by Wolfgang Amadeus Mozart, performed February 25, **2006** at Bryn Mawr College by Karen Greif and Elizabeth Dibble, oboes, Frank Mallory and Robert Stanley, clarinets, Rachel Braddick and Charlotte Reckner, horns, and Neal Williams and Lorraine Jewett, bassoons, sponsored by the Chamber Music Society at Bryn Mawr College.
184. Divertimento in E-flat Major for Wind Octet (1968) by Gordon Jacob, performed February 25, **2006** at Bryn Mawr College by Karen Greif and Elizabeth Dibble, oboes, Frank Mallory and Robert Stanley, clarinets, Rachel Braddick and Charlotte Reckner, horns, and Neal Williams and Lorraine Jewett, bassoons, sponsored by the Chamber Music Society at Bryn Mawr College.
185. Suite for Violin, Clarinet, and Piano (1936) by Darius Milhaud, performed February 25, **2006** at Bryn Mawr College by Hillary Smith, violin, Frank Mallory, clarinet, and Sharon Burgmayer, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
186. Trio in A Minor, Op. 114, by Johannes Brahms, performed March 14, **2006** at Bryn Mawr College by Frank Mallory, clarinet, Paul Melvin, cello, and Emanuel Ax, piano, sponsored by the Gellert Fund of Bryn Mawr College.
187. Three Soliloquies from *The Greater Good* (2006) by Stephen Hartke, performed August 9, **2006** at Bennington College by Peggy Greb, flute, Frank Mallory, clarinet, Jan Jakob Mooij, English horn, Hans Cats, bassoon, Ellen Lucas, violin, Kim Dolan, violin, Bonnie

- Maky, viola, Richard Patterson, cello, and Lydia Newcombe, bass, sponsored by the Chamber Music Conference and Composer's Forum of the East. (First performance.)
188. Serenade No. 11 in E-flat Major, KV 375 (1781) by Wolfgang Amadeus Mozart, performed October 28, **2006** by Karen Greif and Alexa Robertson, oboes, Frank Mallory and Robert Stanley, clarinets, Rachel Braddick and Charlotte Reckner, horns, and Neal Williams and Lorraine Jewett, bassoons, sponsored by the Chamber Music Society at Bryn Mawr College.
  189. Suite from L'Histoire du Soldat (1919) by Igor Stravinsky, performed October 28, **2006** by Geoffrey Michaels, violin, Frank Mallory, clarinet, and Janet Ahlquist, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
  190. Gigue in G Minor, K. 574 (1789) by Wolfgang Amadeus Mozart (arr. Mallory), performed March 3, **2007** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  191. Suite for Oboe, Clarinet, and Bassoon (1949) by Alexandre Tansman, performed March 3, **2007** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  192. Habanera from Aires Tropicales (1994) by Pacquito D'Rivera, performed March 3, **2007** at Bryn Mawr College by Karen Greif, oboe, Frank Mallory, clarinet, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
  193. While in Gardens of Sleet and Stone (2007) by Anthony Suter, performed August 8, **2007** at Bennington College by Peggy Greb, flute, Sylvia Lipnick, oboe, Frank Mallory, clarinet, Marc Wager, horn, and Abby Wells, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East. (First performance.)
  194. Mládí (Youth)(1924) by Leos Janacek, performed November 2, **2007** at Bennington College by Rebecca Simon, flute, Karen Greif, oboe, Robert Stanley, clarinet, Rachel Braddick, horn, and Loren Stata, bassoon, and Frank Mallory, bass clarinet, sponsored by the Chamber Music Conference and Composer's Forum of the East.
  195. Six Studies in English Folksong (1926) by Ralph Vaughan Williams (revised arr. Mallory, 2007), performed March 1, **2008** at Bryn Mawr College by Halley Cody, violin, Alison Avery, viola, Evan McGonagill, cello, Karen Greif, English horn/oboe, Julia Spiegelman, clarinet, and Frank Mallory, bass clarinet, sponsored by the Chamber Music Society at Bryn Mawr College. (First performance.)
  196. Quartet for Piano, Violin, Clarinet, and Cello in E-Flat Major, Op. 1 (1896) by Walter Rabl, performed March 1, **2008** at Bryn Mawr College by Geoffrey Michaels, violin, Frank Mallory, clarinet, Paul Melvin, cello, and Ketty Nez, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
  197. Fourth movement (Polka) from the Böhmishe Suite, Op. 43 (1948) by Kurt Mederacke, performed August 2, **2008** at Bennington College by Roger Brooks, flute, Jane Deckoff, oboe, Frank Mallory, clarinet, Marc Wager, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.

198. Second movement (*Andante cantabile con Variazioni*) from the Trio No. 3 in C Minor, Op. 1, No. 3, by Ludwig van Beethoven (arr. Mallory), performed November 2, **2008** at Bryn Mawr College by Stephen Zukin, piano, Frank Mallory, clarinet, and Paul Melvin, cello, for the Memorial Gathering for Ernst Berliner.
199. Trio No. 3 in C Minor, Op. 1, No. 3, by Ludwig van Beethoven (arr. Mallory), performed November 7, **2008** at Bryn Mawr College by Stephen Zukin, piano, Frank Mallory, clarinet, and Paul Melvin, cello, sponsored by the Chamber Music Society at Bryn Mawr College.
200. Sextet for Piano and Wind Quintet (1956) by Gordon Jacob, performed November 7, **2008** at Bryn Mawr College by Stephen Kamin, piano, Rebecca Simon, flute, Karen Greif, oboe and English horn, Frank Mallory, clarinet, Richard Martz, horn, and Loren Stata, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
201. Partita for Wind Quintet (1948) by Irving Fine, performed March 1, **2009** at Bryn Mawr College by Rebecca Simon, flute, Karen Greif, oboe, Frank Mallory, clarinet, Rachel Braddick, horn, and Loren Stata, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
202. Fantasy in F Minor, Op. 103, D. 940 (1828) by Franz Schubert (arr. Mallory), performed March 1, **2009** at Bryn Mawr College by Halley Cody, violin, Frank Mallory, clarinet, Paul Melvin, cello, and Stephen Zukin, piano, sponsored by the Chamber Music Society at Bryn Mawr College.
203. Third movement (Shadow Catch) from Dances in Checkered Shade (2009) by Daniel S. Godfrey, performed August 5, **2009** at Bennington College by Frank Mallory, clarinet, David Knapp, violin, Eve Cohen, viola, Emily Toll, cello, and Jonathan Newmark, piano, sponsored by the Chamber Music Conference and Composer's Forum of the East.
204. Fifth movement (Grave – Allegretto) from the Suite for Oboe, Clarinet and Viola (1940) by Randall Thompson, performed August 8, **2009** at Bennington College by Jan Jakob Mooij, oboe, Frank Mallory, clarinet, and Mark Kushnir, viola, sponsored by the Chamber Music Conference and Composer's Forum of the East.
205. Third movement (Very Fast) from the Quintet No. 4 for Winds (2008) by David Maslanka, performed August 8, **2009** at Bennington College by Peggy Greb, flute, Jan Jakob Mooij, oboe, Frank Mallory, clarinet, Marc Wager, horn, and Nancy Switkes, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
206. Quintet for Piano and Winds in E-flat Major, Op. 16 (1795/96), by Ludwig van Beethoven, performed April 11, **2010** at Bryn Mawr College by Stephen Zukin, piano, Karen Greif, oboe, Frank Mallory, clarinet, Rachel Braddick, horn, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
207. Trio in E-flat Major, K. 498 (1786) by Wolfgang Amadeus Mozart, performed April 11, **2010** at Bryn Mawr College by Frank Mallory, clarinet, Alison Avery, viola, and Stephen Zukin, piano, sponsored by the Chamber Music Society at Bryn Mawr College.

208. Quintet for Piano and Winds in E-flat Major, K. 452 (1784), by Wolfgang Amadeus Mozart, performed November 14, **2010** at Bryn Mawr College by Stephen Zukin, piano, Karen Greif, oboe, Frank Mallory, clarinet, Rachel Braddick, horn, and Lorraine Jewett, bassoon, sponsored by the Chamber Music Society at Bryn Mawr College.
209. Trio in A Minor, Op. 114, by Johannes Brahms, performed May 28, **2011** at Bryn Mawr College by Ellen Keiser Farren, piano, Frank Mallory, clarinet, and Paul Melvin, cello, sponsored by the Bryn Mawr College Class of 1971 at its 40th Reunion.
210. Octet (2011) by Lucas Hausrath (World Premiere) performed August 3, **2011** at Bennington College by Margaret Jane Radin, flute, Sylvia Lipnick, oboe, Frank Mallory, clarinet, Rosemary Waltzer, horn, Bill Stoll, bassoon, Steve Pershing, violin, Claire Stefani, viola, and Emily Toll, cello, sponsored by the Chamber Music Conference and Composer's Forum of the East.
211. Second movement from the Quintet for Winds No. 2 (1986) by David Maslanka, performed August 3, **2011** at Bennington College by Peggy Greb, flute, Jan Jakob Mooij, oboe, Frank Mallory, clarinet, Marc Wager, horn, and Nancy Switkes, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.
212. Fourth movement (Hornpipe) from Comedy for Five Winds (1973) by Paul Patterson, performed August 6, **2011** by Beth Anderson, flute, Sylvia Lipnick, oboe, Frank Mallory, clarinet, Stephen Taylor, horn, and Hugh Rosenbaum, bassoon, sponsored by the Chamber Music Conference and Composer's Forum of the East.