

RESUME

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Career Summary

- 1960 S.B. (Physics) MIT.
- 1960-62 Engineering Officer in the U.S. Navy.
- 1962-1967 Ph.D. (Physics) Stanford University.
- 1967-1970 Research Associate, Applied Physics Department, Stanford University, Stanford, California.
- 1970-1975 Research Staff Member, IBM Research Laboratory, San Jose, California.
- 1975-1979 Manager, Electronic Phenomena Group, IBM Research Laboratory, San Jose, California.
- 1979-1985 Manager, Condensed Matter Physics Group, IBM Research Laboratory, San Jose, California.
- 1985-1989 Research Staff Member, IBM T. J. Watson Research Center, Yorktown Heights, New York.
- 1989-2007 Professor of Physics and Director, Center for Superconductivity Research, University of Maryland, College Park, Maryland.
- 2007- Alford L. Ward Professor of Physics, University of Maryland, College Park, Maryland.

Honors

IBM Outstanding Contribution Award, August 1975.

Professor Associe´, University of Grenoble, France, 1978-1979.

Elected Fellow of the American Physical Society, 1980.

Elected to Executive Committee of APS Division of Condensed Matter Physics, 1992-1995.

Thomson-ISI 200 Most Highly-cited Physicists, 1981-2001.

Major Professional Activities

Fellow of APS, Member of AAAS, MRS.

APS Visiting Physicist Program, 1978.

Organizing Committee for International Conference on Quasi 1D Conductors, Dubrovnik, Yugoslavia, September 1978.

Organizing Committee for International Conference on Low Dimensional Conductors and Superconductors, Les Arcs, France, December 1982.

Organizing Committee for LT 16 International Conference, Los Angeles, California, August 1981.

Program Committee for International Conference on Magnetism, San Francisco, California, August 1985.

Program Committee for International Conference on Materials and Mechanisms of Superconductivity, Ames, Iowa, May 1985.

Chairman of Committee for APS International Prize for New Materials 1986, Member of Committee for 1985 Prize.

Program Committee for International Conference on High-Temperature Superconductors, Interlaken, Switzerland, February 1988.

Program Committee for Conference on Theoretical Foundations of High- T_c Superconductivity, Aspen, Colorado, January 1988.

Users Committee for F. Bitter National Magnet Laboratory, Massachusetts Institute of Technology, Boston, Massachusetts, 1988-1991.

Participant, NSF/ONR Workshop on Research Opportunities in Superconductivity, Copper Mountain, Colorado, August 1983 and August 1991.

Co-chairman Gordon Conference on Superconductivity, Ventura, California, January 1993.

Member of Executive Committee of DCMP Division of APS, 1992-1995.

Program Committee for International Conference on Molecular and Oxide Superconductors, Eugene, Oregon, July 1993.

Co-chairman Gordon Conference on Superconductivity, Oxnard, California, January 1994.

Co-chairman Gordon Conference on Superconductivity, Les Diablerets, Switzerland, September 1995.

Program Committee for 6th International Conference on Materials and Mechanisms of Superconductivity, Houston, Texas, February 2000.

Member of the APS Apker Award Committee for year 2000, 2001, 2002, 2003.

Program Committee for 7th International Conference on Materials and Mechanisms of Superconductivity, Rio de Janeiro, Brazil, May 2003.

National High Magnetic Field Laboratory NSF Site Review Committee, Tallahassee, Florida, December 4-6, 2005.

Program Committee for 8th International Conference on Materials and Mechanisms of Superconductivity, Dresden, Germany, July 2006.

Member of External Advisory Committee for Canadian Institute for Advanced Research (CIFAR) program on Quantum Materials, 2003-2007.

Chairman, External Advisory Committee for CIFAR program on Quantum Materials, 2008-

Publications

1. Observation of a Spin-Wave Sideband in the Optical Spectrum of MnF_2 , with D. D. Sell et al., *Phys. Rev. Lett.* **15**, 656 (1965).
2. Optical Linewidth and Line-Shape Studies of Energy Transfer Mechanisms between Rare-Earth Impurity Ions, with W.M. Yen, W. C. Scott, and D. L. Huber, *Phys. Rev.* **140**, 1188 (1965).
3. Optical Linewidth Studies of Energy-Transfer Mechanisms Between Impurity Ions, with W. M. Yen, W. C. Scott, D. L. Huber, *Proc. of Conf. on Physics of Quantum Electronics*, San Juan, Puerto Rico (June 1965) edited by P. L. Kelley, B. Lax, P. E. Tannewald, McGraw Hill (1966).
4. Effect of Ultraviolet Pumping on Ruby Laser Output, with J. L. Emmett and A. L. Schawlow, *Appl. Opt.* **5**, 350 (1966).
5. Magnetic Effects in the Optical Spectrum of MnF_2 , with D. D. Sell et al., *J. Appl. Phys.* **37**, 1229 (1967).
6. Exciton-Magnon Effects in the Optical Spectrum of MnF_2 with D. D. Sell, R. M. White, *Proc. of Conf. on Optical Properties of Ions in Crystals*, Baltimore, Maryland (September 1966), edited by H. M. Crosswhite, H. W. Moos, J. Wiley (1967).
7. Optical Exciton-Magnon Absorption of MnF_2 , with D. D. Sell and R. M. White, *Phys. Rev.* **158**, 489 (1967).
8. Impurity-Induced Optical Fluorescence in MnF_2 , with D. D. Sell and G. F. Imbusch, *Phys. Rev.* **171**, 600 (1968).
9. Heat Capacity Measurement on Small Samples at Low Temperatures, with R. Bachman et al., *Rev. Sci. Instr.* **43**, 205 (1972).
10. Heat Capacity of Superconducting Aluminum Films, with C. N. King and R. Zubeck, *Phys. Rev. B* **6**, 3297 (1972).
11. Specific heat of One-Dimensional $\text{K}_2\text{Pt}(\text{CN})_4\text{Cl}_{0.03n} \cdot \text{H}_2\text{O}$, with W. A. Little, *Phys. Rev. Lett.* **29**, 718 (1972).
12. Temperature Dependence of the Near-infrared Optical Properties of TTF-TCNQ, with P. M. Grant, G. C. Wrighton, and G. Castro, *Phys. Rev. Lett.* **31**, 1311 (1973).

13. Pressure Dependence of the Metal-Insulator Transition in TTF-TCNQ, with C. W. Chu, J. M. E. Harper, and T. H. Geballe, *Phys. Rev. Lett.* **31**, 1491 (1973).
14. Heat Capacity Measurements of Small Samples - Granular Al Films, with C. N. King, R. B. Zubeck, *Low Temperature Physics - LT 13*, Vol. 4, p. 626, edited by K. D. Timmerhaus, W. J. O'Sullivan, and E. F. Hammel, Plenum Press (New York, 1974).
15. Specific Heat, Optical and Transport Properties of Hexagonal Tungsten Bronzes, with C. N. King, J. A. Benda, T. H. Geballe, *Low Temperature Physics - LT 13*, Vol. 3, p. 411, edited by K. D. Timmerhaus, W. J. O'Sullivan, and E. F. Hammel, Plenum Press (New York, 1974).
16. Optical Reflectivity of TTF-TCNQ, with P. M. Grant, G. Castro, Symposium on Superconductivity and Lattice Instabilities, Gatlinburg, Tennessee, September 1973, *Solid State Comm.* **14**, 100 (1974).
17. Low-Temperature Specific Heat of Polysulfur Nitride, $(\text{SN})_x$ with P. M. Grant and G. B. Street, *Phys. Rev. Lett.* **34**, 89 (1975).
18. Superconductivity in Polysulfur Nitride, $(\text{SN})_x$ with G. B. Street and L. J. Suter, *Phys. Rev. Lett.* **34**, 577 (1975).
19. Optical Properties of $(\text{SN})_x$, with G. B. Street and P. M. Grant, *Phys. Rev. Lett.* **35**, 1743 (1975).
20. Pressure Dependence of Superconductivity and Normal Conductivity in $(\text{SN})_x$, with W. D. Gill et al., *Phys. Rev. Lett.* **35**, 1732 (1975).
21. The Preparation and Characterization of Crystals of the Superconducting Polymer, $(\text{SN})_x$, with G. B. Street et al., *Mat. Res. Bull.* **10**, 877 (1975).
22. Thermopower of an Isostructural Series of Organic Conductors, with P. M. Chaikin, S. Etemad, and E. Engler, *Phys. Rev. B* **13**, 1627 (1976).
23. The Upper Critical Field of Superconducting $(\text{SN})_x$, with L. J. Azevedo et al., *Solid State Comm.* **19**, 197 (1976).
24. Comparison of the Physical Properties of $(\text{SN})_x$ to Related Organic Polymers and TTF-TCNQ, with P. M. Grant et al., *Mol. Cryst. Liq. Cryst.* **32**, 171 (1976).
25. Two Band Transport and Disorder Effects in a Series of Organic Alloys: $(\text{TTF}_{1-x}\text{TSeF}_x)\text{-TCNQ}$, with P. M. Chaikin et al., *Solid State Commun.* **19**, 1201 (1976).
26. The Structure, Conductivity, and Thermopower of HMTTF-TCNQ, with J. J. Mayerle et al., *Solid State Commun.* **20**, 943 (1976).
27. Specific Heat of Polysulfur Nitride $(\text{SN})_x$, with J. M. E. Harper, P. M. Grant, and G. B. Street, *Phys. Rev. B* **15**, 539 (1977).

28. Properties of Polysulfurnitride - The First Superconducting Polymer, with B. H. Schechtman et al., Proc. Inter. Symposium on Electrets and Dielectrics, edited by Academia Brasileira de Ciencias, 405 (1977).
29. Superconducting Properties of the Crystalline Polymer (SN)_x, with W. D. Gill, L. J. Azevedo, and W. G. Clark, Ferroelectrics **16**, 243 (1977).
30. The Preparation and Properties of (SN)_x, with G. B. Street, IBM Jour. of Res. and Dev. **21**, 99 (1977).
31. Electronic Properties of the Superconducting Polymer, (SN)_x, with G. B. Street, *Proc. of NATO-ASI on Chemistry and Physics of One-Dimensional Metals*, edited by H. J. Keller (Plenum Press 1977), p. 167.
32. Superconducting Properties of (SN)_x, with W. D. Gill et al., *Proc. of Conf. on Organic Conductors*, Lecture Notes in Physics #65 (Springer-Verlag 1977).
33. Modification of the Electronic Properties of (SN)_x Modified by Halogens, with G. B. Street et al., Chem. Comm. **407**, (1977).
34. Structure and Electronic Properties of (SN)_x Modified by Bromine, with G. W. Gill et al., Phys. Rev. Lett. **38**, 1305 (1977).
35. The Upper Critical Field of Superconducting Polysulfur Nitride, (SN)_x, with L. J. Azevedo et al., *Anisotropy Effects in Superconductors*, edited by H. Weber (Plenum Press 1977).
36. Pressure Dependence of Superconductivity in (SN)_x, with L. R. Bickford and W. D. Gill, Phys. Rev. B **17**, 3525 (1978).
37. Electron Tunneling in (SN)_x and Conducting Organic Salts, with P. M. Chaikin and P. K. Hansma, Phys. Rev. B **17**, 179 (1978).
38. Thermopower of M-TCNQ Doped TTF-TCNQ and TSeF-TCNQ, with P. M. Chaikin and E. M. Engler, Solid State Comm. **25**, 1009 (1978).
39. Superconducting Properties of Brominated (SN)_x, with J. F. Kwak and W. W. Fuller, J. de Phys. **C6**, 1401 (1978).
40. Magnetic Properties of the Superconducting Polymers (SN)_x and (SNBr_{0.4})_x, with R. H. Dee et al., J. de Phys. **C6**, 444 (1978).
41. Polythiazyl Halides: Bromine Derivatives of (SN)_x and S₄N₄, with G. B. Street et al., Ann. N.Y. Acad. Sci. **313**, 737 (1978).
42. Properties of Brominated (SN)_x, with W. D. Gill, et al., Lecture Notes in Physics #96, edited by S. Barisic et al. (Springer-Verlag 1979).
43. An Electronic Model for Conductivity in (SN)_x, with P. M. Grant et al., Lecture Notes in Physics #96, edited by S. Barisic et al. (Springer-Verlag 1979).

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45. New Systems Comprised of Non-Metallic Elements, with R. H. Baughman et al., *Molecular Metals*, edited by W. E. Hatfield, Plenum Press (1979), p. 505.
46. Thermoelectric Power of NbSe_3 and $\text{Nb}_{1-x}\text{Ta}_x\text{Se}_3$, with J. F. Kwak, P. M. Chaikin, and N. P. Ong, *Lecture Notes in Physics #96*, edited by S. Barisic et al. (Springer-Verlag, 1979).
47. Transport Properties of Doped Polyacetylene, with J. F. Kwak, T. C. Clarke, and G. B. Street, *Solid State Comm.* **31**, 355 (1979).
48. The Effect of Pressure on the Superconducting Transition Temperature in TaSe_3 , with K. Yamaya, T. Geballe, and J. F. Kwak, *Solid State Commun.* **31**, 627 (1979).
49. $(\text{SnBr}_{0.4})_x$: A Superconductor of Increased Dimensionality, with J. F. Kwak and W. W. Fuller, *Phys. Rev. B* **20**, 2658 (1979).
50. One-Dimensional Spin Diffusion in Polyacetylene, $(\text{CH})_x$, with M. Nechtschein, F. Devreux, and T. C. Clarke, *Phys. Rev. Lett.* **44**, 356 (1980).
51. Thermopower and Transport Properties of AsF_5 Doped Polyacetylene, with J. F. Kwak et al., *Synthetic Metals* **1**, 213 (1980).
52. Magnetic Properties of the Superconducting Polymers $(\text{SN})_x$ and $(\text{SnBr}_{0.4})_x$, with R. H. Dee, J. F. Carolan, and B. G. Turrell, *Phys. Rev. B* **22**, 174 (1980).
53. Magnetic Resonance Studies of Soliton Diffusion in $(\text{CH})_x$, with D. Devreau, K. Holczer, and M. Nechtschein, *Physics in One Dimension*, edited by J. Bernasconi and T. Schnieder, Springer Berlin (1980), p. 194.
54. Pressure Dependence of Superconductivity in $(\text{TMTSF})_2\text{PF}_6$, with E. M. Engler, *Phys. Rev. Lett.* **45**, 1587 (1980).
55. Study of Nonlinear Electric Field Effects in $(\text{TMTSF})_2\text{PF}_6$, with P. M. Chaikin, G. Gruner, and E. M. Engler, *Phys. Rev. Lett.* **45**, 1874 (1980).
56. Thermopower of Doped and Damaged NbSe_3 , with P. M. Chaikin et al., *Solid State Comm.* **39**, 553 (1981).
57. Magnetic Quantum Oscillations in $(\text{TMTSF})_2\text{PF}_6$, with J. F. Kwak, J. E. Schirber and E. M. Engler, *Phys. Rev. Lett.* **46**, 1296 (1981).
58. Low Temperature Properties of an Organic Superconductor, with P. Haen et al., *Physica* **108B**, 1181 (1981).
59. Magnetoresistance and Hall Effect in $(\text{TTSF})_2\text{PF}_6$, with P. M. Chaikin et al., *Phys. Rev. B* **24**, 7155 (1981).

60. High Field Phase Transition in $(\text{TMTSF})_2\text{PF}_6$ Under Pressure, with L. J. Azevedo et al., *Physica* **108B**, 11833 (1981).
61. Effect of Radiation Damage on Transport in $(\text{TMTSF})_2\text{PF}_6$, with M. Y. Choi et al., *Phys. Rev. B* **25**, 6208 (1982).
62. Critical Field Anisotropy in $(\text{TMTSF})_2\text{ClO}_4$, with M. Y. Choi, et al., *Solid State Comm.* **41**, 225 (1982).
63. Chemistry and Electrocrystallization of Organic Metals and Superconductors, with E. M. Engler et al., *Mol. Cryst. Liq. Cryst.* **79**, 371 (1982).
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66. Some Properties of the $(\text{TMTSF})_2\text{X}$ Superconductors, with P. Haen et al., *Mol. Cryst. Liq. Cryst.* **79**, 539 (1982).
67. Compressibilities of $(\text{TMTSF})_2\text{PF}_6$, with B. Morosin et al., *Phys. Rev. B* **26**, 2660 (1982).
68. Superconductivity in a New Family of Organic Conductors, with S. S. P. Parkin et al., *Phys. Rev. Lett.* **50**, 270 (1983).
69. Low Temperature Metallic Conductivity in Nickel Phthalocyanine Iodide, with J. Martinsen et al., *J. Am. Chem. Soc.* **105**, 677 (1983).
70. Pressure Dependence of Superconductivity in $\text{Ti}_2\text{Mo}_6\text{Se}_6$, with S. Z. Huang et al., *Solid State Comm.* **5**, 749 (1983).
71. Superconductivity and Metal-Insulator Transitions in $(\text{TMTSF})_2\text{X}$, with P. M. Chaikin and M. Y. Choi, *J. Mag. and Mag. Mat.* **31**, 1268 (1983).
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73. Superconductivity and Anomalous Magnetotransport in $(\text{TMTSF})_2\text{ClO}_4$, with P. M. Chaikin and M. Y. Choi, *J. de Physique Colloq.* **C3**, 783 (1983).
74. Low Temperature Transport Measurements on $(\text{TMTSF})_2\text{ClO}_4$, with P.M. Chaikin and M. Y. Choi, *J. de Physique Colloq.* **C3**, 791 (1983).
75. A Sulfur Based Organic Molecular Superconductor, $(\text{BEDT-TTF})_2\text{ReO}_4$, with S. S. P. Parkin et al., *J. de Physique Colloq.* **C3**, 791 (1983).

76. Far Infrared Properties of $(\text{TMTSF})_2\text{ClO}_4$, with W. A. Challener and P. L. Richards, *J. de Physique Colloq.* **C3**, 873 (1983).
77. $(\text{TMTSF})_2\text{ClO}_4$ in High Magnetic Fields, with P. M. Chaikin et al., *Phys. Rev. Lett.* **51**, 2333 (1983).
78. Far Infrared Measurements of $(\text{TMTSF})_2\text{ClO}_4$, with W. A. Challener and P. L. Richards, *Solid State Comm.* **51**, 765 (1984).
79. Competition between Superconductivity and Localization in Ultrathin a-MoGe Films, with J. M. Graybeal and M. R. Beasley, *Proceeding of LT 17*, edited by U. Eckern et al., North Holland (1984), p. 731.
80. Conducting Organic Materials, with G. B. Street, *Science* **226**, 651 (1984).
81. Organic Superconductors, with P. M. Chaikin, *Physica* **126B**, 431 (1984).
82. A Highly One-Dimensional Molecular Metal: Nickel Phthalocyanine Iodide, with J. Martinsen et al., *Phys. Rev. B* **30**, 6269 (1984).
83. Anomalous Hall Effect and Magnetotransport Effects in the Organic Superconductor $(\text{TMTSF})_2\text{ClO}_4$, with P. M. Chaikin, *Phil. Trans. R. Soc. (London)* **A314**, 97 (1985).
84. Narrow Pressure Domain for Superconductivity in $(\text{TMTSF})_2\text{ClO}_4$, with S. P. Parkin and J. Voiron, *Mol. Cryst. Liq. Cryst.* **119**, 33 (1985).
85. Magneto Thermopower of $(\text{TMTSF})_2\text{PF}_6$, with M. Y. Choi et al., *Phys. Rev. B* **31**, 3576 (1985).
86. $(\text{TMTSF})_2\text{ClO}_4$ in High Magnetic Fields, with P. M. Chaikin et al., *Mol. Cryst. Liq. Cryst.* **119**, 79 (1985).
87. The Metal Insulator Transition and Superconductivity in Amorphous MoGe Alloys, with S. Yoshizumi, D. Mael, and T. H. Geballe, in *Localization and Metal-Insulator Transitions*, edited by H. Fritzsche and D. Adler (Plenum 1985).
88. Metal-Spine Conductivity in a Partially Oxidized Metallomacrocycle: (Phthalocryninato) Cobalt Iodide, with J. Martinsen et al., *J. Am. Chem. Soc.* **107**, 6915 (1985).
89. Anomalous Transition in Copper Phthalocyanine Iodide, with B. Hoffman et al., *Mol. Cryst. Liq. Cryst.* **120**, 427 (1985).
90. Magnetic Field Dependent Susceptibility of $(\text{TMTSF})_2\text{ClO}_4$, with A. Feldblum et al., *Mol. Cryst. Liq. Cryst.* **119**, 87 (1985).
91. Magnetic Field Induced Transition and Quantum Oscillations, with H. Schwenk and S. S. P. Parkin, *Phys. Rev. Lett.* **56**, 667 (1986).
92. Superconductivity and Magnetism in Organic Metals, with P. M. Chaikin, *Physics Today* **39**, 24 (1986).

93. Superconductivity in Sulphur-based Organic Superconductors: A Volume Property, with H. Schwenk, V. Y. Lee and S. S. Parkin, *Phys. Rev. B* **34**, 3156 (1986).
94. Quantum Oscillations in $(\text{TMTSF})_2\text{ReO}_4$, with S. S. Parkin and H. Schwenk, *Physica* **143**, 388 (1986).
95. Thermal Conductivity of $(\text{TMTSF})_2\text{ClO}_4$, with M. Y. Choi and P. M. Chaikin, *Phys. Rev. B* **34**, 7727 (1986).
96. Study of Volume Superconductivity in $\beta\text{-(ET)}_2\text{X}$ Superconductors, with S. Schwenk, V. Y. Lee, and S. S. P. Parkin, *Synthetic Metals* **10**, 163 (1987).
97. Far-Infrared Measurement of the Energy Gap of $\text{La}_{1.8}\text{Sr}_{0.2}\text{CuO}_4$, with Z. Schlesinger, J. G. Bednorz and K. A. Mueller, *Phys. Rev. B* **35**, 5334 (1987).
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99. Evidence for Electron-Electron Correlations in La_2CuO_4 and $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ Superconductor, with H. Maletta et al., *Solid State Comm.* **63**, 379 (1987).
100. Magnetic X-Ray Scattering Measurements on MnF_2 , with A. I. Goldman et al., *Phys. Rev. B* **36**, 5609 (1987).
101. Melting of Xenon on Silver; The Hexatic Phase in the Weak-Substrate Limit, with N. Greiser et al., *Phys. Rev. Lett.* **59**, 1706 (1987).
102. $\text{Cu}(\text{pc})\text{I}$: A Molecular Metal with a One-dimensional Array of Local Moments Embedded in a Fermi Sea of Charge Carriers, with M. Y. Ogawa et al., *J. Am. Chem. Soc.* **109**, 1115 (1987).
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104. Evidence for Superconductivity in La_2CuO_4 , with P. M. Grant et al., *Phys. Rev. Lett.* **58**, 2482 (1987).
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107. Temperature Dependence of the Magnetic Penetration Depth in YBaCuO Crystals, with L. Krusin-Elbaum et al., *Phys. Rev. Lett.* **62**, 217 (1989).
108. Hole Concentrations, Hall Number and T_c Relationships in Substituted $\text{YBa}_2\text{Cu}_3\text{O}_y$, with M. W. Shafer et al., *Phys. Rev. B* **39**, 2914 (1989).

109. Comment on Magnetic Penetration Depth of $\text{YBa}_2\text{Cu}_3\text{O}_7$, with L. Krusin-Elbaum and A. P. Malozemoff, *Phys. Rev. Lett.* **62**, 2886 (1989).
110. Hole Concentration - T_c Relationships for Nd and Zn Substitutions in $\text{YBa}_2\text{Cu}_3\text{O}_y$, with M. W. Shafer, T. Penney and B. L. Olson, *MRS Proceedings* (April 1989).
111. Anomalous Hall Effect on Superconductors Near their Critical Temperatures, with S. J. Hagen et al., *Phys. Rev. B* **41**, 11639 (1990).
112. "Organic and Oxide Superconductors: An Experimental Comparison", *Proceedings of International Conference on Organic Superconductors*, ed. V. Z. Kresin and W. A. Little (Plenum, New York 1990), p. 7.
113. Flux-Flow Nernst Effect in Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$, with S. J. Hagen et al., C. J. Lobb, *Phys. Rev. B* **42**, 6777 (1990).
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367. Hole superconductivity in the electron-doped superconductor $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$, Y. Dagan and R.L. Greene, *Phys. Rev. B* **76**, 024506 (2007).
368. Local tunneling spectroscopy of the electron-doped cuprate superconductor $\text{Sm}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$, A. Zimmers, Y. Noat, T. Cren, W. Sacks, D. Roditchev, B. Liang, and R.L. Greene, *Phys. Rev. B* **76**, 132505 (2007).
369. Magnetism and anomalous Hall effect in $\text{Co}(\text{La,Sr})\text{TiO}_3$, S.X. Zhang, W. Yu, S.B. Ogale, S.R. Shinde, D.C. Kundaliya, W.K. Tse, S.Y. Young, J.S. Higgins, L.G. Salamanca-Riba, M. Herrera, L.F. Fu, N.D. Browning, R.L. Greene, and T. Venkatesan, *Phys. Rev. B* **76**, 085323 (2007).
370. Normal-state Nernst effect in electron-doped $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_{4-\delta}$: Superconducting fluctuations and two-band transport, P. Li and R.L. Greene, *Phys. Rev. B* **76**, 174512 (2007).
371. Quantum criticality in the electron-doped cuprates, Y. Dagan and R. L. Greene, *Physica C* **460-462**, 1109 (2007).

372. Observation of a 500meV Collective Mode in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and Nd_2CuO_4 , J.P. Hill, B. Blumberg, Y.J. Kim, D. Ellis, S. Wakimoto, R.J. Birgeneau, S. Komiyama, Y. Ando, B. Liang, R.L. Greene, D. Casa, and T. Gog, cond-mat/0709.3274.

Invited Talks at International Conferences

1. "Polymeric Conductors," Materials Research Council Conference on One- and Two-Dimensional Conductors, La Jolla, California, July 1975.
2. "Three Classes of One-Dimensional Conductors: An Experimental Comparison," ACS Meeting, Chicago, Illinois, August 1975.
3. "Properties of the Superconducting Polymer, $(\text{SN})_x$," Miniconference on One-Dimensional Conductors at LT-14, Helsinki, Finland, August 1975.
4. "Properties of $(\text{SN})_x$: A Polymeric Superconductor," APS Meeting at Atlanta, Georgia, March 1976, Bull. Am. Phys. Soc. 21, 220 (1976).
5. "Properties of the Superconducting Polymer, $(\text{SN})_x$," Gordon Conference on Inorganic Chemistry at New Hampton, New Hampshire, August 1976.
6. "Electronic Properties of the Superconducting Polymer, $(\text{SN})_x$," NATO Advanced Summer Institute on Chemistry and Physics of One-Dimensional Metals, Bolzano, Italy, August 1976.
7. "One-Dimensional Conductors - A Status Report," Western Spectroscopy Association Conference, Asilomar, California, January 1977.
8. "Organic and Polymeric Metals," Molecular Crystal Symposium VIII, Santa Barbara, California, June 1977.
9. "Physical Properties of Polysulfur nitride, $(\text{SN})_x$," Synthesis and Properties of Low-Dimensional Materials Conference, New York, New York, June 1977.
10. "Superconducting Properties of Brominated $(\text{SN})_x$," International Conference on Low Temperature Physics LT15, Grenoble, France, August 1978.
11. "Properties of Brominated $(\text{SN})_x$," International Conference on Quasi One-Dimensional Conductors, Dubrovnik, Yugoslavia, September 1978.
12. "Magnetic Resonance Studies of Soliton Diffusion in Polyacetylene," International Conference on Physics in One Dimension, Fribourg, Switzerland, August 1980.
13. "SDW, Superconductivity and Nonlinear Effects in $(\text{TMTSF})_2\text{PF}_6$ and Related Organic Salts," Gordon Conference on Chemistry and Physics of Solids, Plymouth, New Hampshire, July 1981.
14. "Magnetotransport and Nonlinear Effects in $(\text{TMTSF})_2\text{PF}_6$," International Conference on Low Dimensional Conductors, Boulder, Colorado, August 1981.

15. "Some Properties of the $(\text{TMTSF})_2\text{X}$ Superconductors," International Conference on Low Dimensional Conductors, Boulder, Colorado, August 1981.
16. "Organic Superconductors," US-Japan Seminar on Design of Molecular Structures, Stanford, California, August 1981.
17. "SDW's and 1D Superconductivity," Symposium on Low Dimensional Conductors, Santa Barbara, California, December 1981.
18. "Review of Organic Superconductors," Workshop on Synthetic Metals, Los Alamos, New Mexico, April 1982.
19. "Superconductivity and Metal-Insulator Transitions in $(\text{TMTSF})_2\text{X}$," International Conference on Magnetism, Kyoto, Japan, September 1982.
20. "Organic Superconductivity," NATO ASI on Advances in Superconductivity, Erice, Italy, July 1982.
21. "Transport Properties of Organic Superconductors," APS March Meeting, Los Angeles, California, March 1983, *Bull. Am. Phys. Soc.* **28**, 399 (1983).
22. "Recent Results on Organic Superconductivity," Gordon Conference on Strongly Interacting Fermions, Wolfeboro, New Hampshire, August 1983.
23. "The Future of Organic Superconductivity," Workshop on Problems in Superconductivity, Copper Mountain, Colorado, August 1983.
24. "Organic Conductors," National Academy of Science Annual Forum on Solid State Science, Washington, D.C., March 1984.
25. "Anomalous Hall Effect and Magneto-Transport Effects in $(\text{TMTSF})_2\text{ClO}_4$," Royal Society (London) Meeting on Electrical and Magnetic Properties of Low-Dimensional Solids, London, England, June 1984.
26. "Organic Superconductors," Plenary Lecture at International Conference on Low Temperature Physics (LT 17), Karlsruhe, Germany, August 1984.
27. "Quantum Oscillations and Field-Induced Transitions in $(\text{TMTSF})_2\text{ReO}_4$," Yamada Conference XV on Physics and Chemistry of Quasi One-Dimensional Conductors, Lake Kawaguchi, Yamanashi, Japan, June 1986.
28. "Survey of High- T_c Superconductivity Research at IBM," New England Conference on High- T_c Superconductivity, Boston, Massachusetts, April 1987.
29. "High- T_c Superconductivity," International Workshop on Novel Mechanisms of Superconductivity, Berkeley, California, June 1987.
30. "Properties of Oxide Superconductors," Drexel International Conference on High- T_c Superconductivity, Philadelphia, Pennsylvania, July 1987.

31. "Antiferromagnetic Correlations in the La_2CuO_4 Class of Oxides," Yamada Conference XVIII on Superconductivity in Highly Correlated Fermion Systems, Sendai, Japan, September 1987.
32. Recent Results on High- T_c Superconductors," Conference on High Temperature Superconductivity, Bristol, England, December 1987.
33. "Physical Properties of High- T_c Oxides: Relation to Structure and Composition," Gordon Conference on Solid State Chemistry, Plymouth, New Hampshire, July 1988.
34. "Organic and Oxide Superconductors: An Experimental Comparison," International Conference on Organic Superconductors, Lake Tahoe, California, May 1990.
35. "Organic Superconductors—An Experimental Review," Gordon Conference on Superconductivity, Ventura, California, February 1991.
36. "Transport Properties of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ Single Crystals," Workshop on HTSC Materials, University of Houston, Texas, February 1992.
37. "Anomalous Electron Transport in the Normal State of $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{O}_{4-y}$," University of Miami Workshop on "High Temperature Superconductivity: Physical Properties and Mechanisms, January 1995.
38. "Anomalous Transport Properties in Superconducting $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_{4-\delta}$ Films", First Polish-US Conference on High- T_c Superconductivity, Wroclaw, Poland, September 1995.
39. "Thermal, Magnetic, and Electronic Properties of Manganese Oxides", APS March Meeting, St. Louis, Missouri, March 1996.
40. "Current Research Issues for the Electron-doped Cuprates", NATO Summer School on Gap Symmetry and Fluctuations in High- T_c Superconductors, Cargese, Corsica, September 1997 (given by P. Fournier).
41. "Superconducting and Normal State Properties of Electron-doped Cuprates", APS March Meeting, Los Angeles, CA, March 1998 (given by P. Fournier).
42. "Specific Heat, Tunneling, and Oxygen Isotope Studies of the Charge-Order Transition in the Manganites", JRCAT Workshop on Complex Phenomena of Correlated Electrons in Oxides, Big Island, Hawaii, May 1999.
43. "Organic Metals", 6th International Conference on Materials and Mechanisms of Superconductivity, (M2S-HTSC-VI), Houston, Texas, Feb 2000 – Part of a symposium in Honor of T. H. Geballe.
44. "Status of Electron-doped High- T_c Superconductors", ITP Workshop on High- T_c Superconductors, UCSB, Santa Barbara, CA August 2000.
45. "Transport Properties of n-doped Cuprates", Aspen Winter Conference on High- T_c Superconductivity, Aspen, CO, January 2001.

46. "Tunneling and Specific heat Measurements of n-doped Cuprates", Gordon Conference on Superconductivity, Oxford, UK, September 2001.
47. "Tunneling and Specific Heat of n-doped Cuprates below 20K", International Conference on Physics and Chemistry of Molecular and Oxide Superconductors, Hsinchu, Taiwan, August 2002.
48. "Anomalous Properties of n-doped Cuprates in the Normal and Superconducting States, Workshop on CMR Manganites and Related Oxides, Telluride, CO, July 2002.
49. "Nernst Effect in the n-doped High- T_c Superconductors $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$ ", Gordon Conference on Superconductivity, Ventura, CA, January 12-17, 2003.
50. "Probing the Normal State of the n-doped Cuprates", 10th International Workshop on Oxide Electronics, Augsburg, Germany, September 11-13, 2003.
51. "Electron-doped Cuprates", CIAR Quantum Materials Workshop, L'Esterel, Quebec, Canada, October 16-19, 2003.
52. "Oxide-based Diluted Magnetic Semiconductors" Magnetic and Superconducting Materials Workshop, Barcelona, Spain, October 23-25, 2003 (given by S. Ogale).
53. "Electron-doped Cuprates: "Doping dependence of the Low T Normal State and the Pairing Symmetry", International Workshop on Novel Quantum Phenomena in Transition Metal Oxides, Sendai, Japan, November 5-8, 2003.
54. "The Doping Dependence of the Ground State in the Electron-doped Cuprates", APS March Meeting, Montreal, Canada, March 20-26, 2004.
55. "Evidence for a Quantum Phase Transition in $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$ from Hall and Resistivity Measurements", NATO Workshop on Unconventional Superconductivity, Miami, Florida, January 2004 (given by Y. Dagan).
56. "Quantum Critical Point in Electron-doped Superconductors", Gordon Research Conference on Superconductivity, Oxford, England, September 19-24, 2004.
57. "Some Properties of Electron-doped Cuprates", Aspen Winter Conference on High- T_c Superconductivity, Aspen, CO, January 13, 2005.
58. "Novel Properties of Electron-doped Cuprates", SPIE Conference on Strongly Correlated Materials, San Diego, CA, August 3, 2005.
59. "Evidence of Quantum Criticality in Electron-doped Cuprates", (given by A. Zimmers) LT24-24th International Conference on Low Temperature Physics, Orlando, FL, August 16, 2005.
60. "Evidence for Quantum Criticality in the n-doped Cuprates", 12th International Workshop on Oxide Electronics", Cape Cod, MA, October 3, 2005.
61. "Evidence for Quantum Criticality in Electron-doped Cuprates", APS March Meeting, Baltimore, MD, March 14, 2006 (given by Y. Dagan).

62. “Evolution of Superconductivity in Electron-doped Cuprates”, APS March Meeting, Baltimore, MD, March 14, 2006 (given by G. Blumberg).
63. “Status and Future Opportunities for n-type Cuprates”, DOE Workshop on Basic Research Needs for Superconductivity, Washington DC, May 8-11, 2006.
64. “Quantum Criticality in the n-doped Cuprates”, CIAR Quantum Materials Workshop, Montreal, Canada, May 11-14, 2006.
65. “Novel Normal State Properties of n-doped Cuprates”, International Conference on Low-energy Excitations in high- T_c Superconductors, Stuttgart, Germany, July 5-7, 2006.
66. “High Field Transport in Electron-doped Cuprates”, M²-HTSC VIII International Conference, Dresden, Germany, July 7-14, 2006.
67. “Quantum Criticality and High-field Properties of Electron-doped Cuprates”, Workshop on Novel States of Unstable and Stable Quantum Matter, Trieste, Italy, August 14-25, 2006.
68. “Quantum Criticality and High-field Properties of Electron-doped Cuprates”, International Workshop on Electronic States and Disorder Effects in Cuprate Superconductors, Beijing, China, November 9-11, 2006.
69. “The Neglected Electron-doped Cuprates—What Do They Tell Us About the Physics of High- T_c Superconductivity?”, Workshop on Superconductivity and Magnetism in Novel Materials, Ramat Gan, Israel, May 6-10, 2007.
70. “Transport Evidence of Quantum Criticality in Electron-doped Cuprates”, Int. Sym. on Superconductivity ISS 2007, Tsukuba, Japan, Nov. 5-7, 2007.