

Biographical Sketch — David M. Lee

(i) Professional Preparation

Harvard University	Physics A.B.	1952
University of Connecticut	Physics M.S.	1955
Yale University	Physics Ph.D.	1959

(ii) Appointments and other information

2012 – present	Distinguished Professor of Physics, Texas A&M University
2009 – 2011	Professor of Physics, Texas A&M University
1998 – 2007	James Gilbert White Distinguished Professor of the Physical Sciences, Cornell University
1969 – 1998	Professor of Physics, Cornell University
1963 – 1969	Associate Professor of Physics, Cornell University
1960 – 1963	Assistant Professor of Physics, Cornell University
1959 – 1960	Instructor in Physics, Cornell University

(iii) Other information

- Military - Served in U.S. Army 1952 – 1954
- Visiting Positions: Chaire Municipale, Joseph Fourier University of Grenoble 1994, University of California at San Diego 1988, University of Florida 1974 – 1975, Brookhaven National Lab. 1966 – 1967.
- Fellowships – DuPont Fellowship 1957-1958, Guggenheim Fellowships 1966 – 1967 and 1974 – 1975, Japan Society for the Promotion of Science Fellowship 1977.
- Affiliations - Fellow American Physical Society, British Institute of Physics, American Association for the Advancement of Science, and American Academy of Arts and Sciences; member, National Academy of Sciences; foreign member, Russian Academy of Sciences.
- Awards - 1976 Sir Francis Simon Memorial Prize (with R. C. Richardson and D. D. Osheroff), 1981 Oliver Buckley Prize (with Osheroff and Richardson), 1996 Nobel Prize in Physics with Osheroff and Richardson for the discovery of Superfluid ^3He ; Wilbur Cross Medal of the Yale University Graduate School.
- Honorary Doctoral Degrees: Univ. of Connecticut, Polytechnic Inst. of New York, Univ. of Florida, Univ. of Buenos Aires, Joseph Fourier Univ. (Grenoble), Lancaster Univ. (UK).

(iv) Synergistic Activities

Chairman, National Research Council Committee on Fundamental Constants; American Physical Society Committee to Evaluate Reviews of Modern Physics.

(v) Collaborators and other Affiliations

(a.) Collaborators and co-editors – past 5 years.

Janne Ahokas, Turku University, Finland; Roman Boltnev, BINEPCP, Chernogolovka, Russia; Jarno Jarvinen, Institute Néel – CNRS, Grenoble, France; Vladimir Khmelenko, Texas A&M University; Valery Kiryukhin, Rutgers University; Nina Krainyukova, Institute of Low Temperature Physics and Engineering, Kharkov, Ukraine; Carley Paulsen, Institute Néel – CNRS, Grenoble, France; Otto Vainio, Turku University, Finland, Sergey Vasiliev, Turku University, Finland.

(b.) Yale Ph.D.

Yale Graduate Advisor, Professor Henry A. Fairbank, Duke University (deceased)

(c.) Thesis Advisor and Postgraduate – Scholar Sponsor

Ph.D. Students – total number 32

Harold Weinstock, AFOSR; Fred P. Lipschultz, Emeritus Prof., U. of Conn.; Erlend H. Graf, emeritus Prof., SUNY – Stony Brook; Paul M. Tedrow, *recipient of 2009 Buckley prize*, Retired Researcher, MIT National Magnet Lab.; Prabha K. Tedrow, Staff – Hanscomb Air Force Base;

Otfried Heybey, deceased, AMP, Inc.; Richard Crepeau, Retired Researcher, Cornell Univ.; James Sites, Professor, Colorado State Univ.; Linton Corruccini, Professor, U. of Calif., Davis, CA; Douglas D. Osheroff *Nobel Laureate*, Professor, Stanford Univ. (retired); Willy Gully, Researcher, Ball Corporation (retired); Steven Goldstein, unknown; Christopher Gould, Professor, USC; Russell Giannetta, Professor, U. of Illinois; Eric Ziercher, unknown; David Sagan, Lab. of Nuclear Studies, Cornell Univ.; Roman Movshovich, Staff Scientist, Los Alamos National Lab.; Paul de Vegvar, Private Consulting; Bernard Yurke, Boise State Univ.; Burgess Johnson, Staff Scientist, Honeywell; John Denker, AT and T Laboratories (retired); David Thompson, academic position in Peru; Keith Earle, Professor, Univ. of Albany, Dept. of Chemistry; Nicholas Bigelow, Professor, Univ. of Rochester; Chao (Charles) Jin, Bond Trader, Wall Street; Geoffrey Nunes, Researcher, DuPont Chemical; Drew Geller, Staff Scientist, Los Alamos National Lab.; Sergey Kiselev, McKinsey Corp.; Ethan Bernard, Res. Assoc, Yale Univ.; Dean Hawthorne, Prog. Analyst Sr., Lab. Of Ornithology, Cornell Univ.; Shun Mao, seismic analyst CGG; Scott Wilde, Adil Meraki, academic position in Turkey.

Postdoctoral Associates – past 5 years, NONE

Publications

1. Heat Transport in Liquid ^3He , with H. A. Fairbank, Proceedings of the 5th International Conference on Low Temperature Physics and Chemistry, Madison, Wisconsin, 60 (1957).
2. Thermal Boundary Resistance in Liquid ^3He , with H. A. Fairbank, Proceedings of the 5th International Conference on Low Temperature Physics and Chemistry, Madison, Wisconsin, 93 (1957).
3. Measurements of the Thermal Conductivity of Liquid ^3He , with H. A. Fairbank, Proceedings Symposium on Solid and Liquid ^3He , Ohio State University, Columbus, Ohio, 26 (August 1957).
4. Kapitza Boundary Resistance in Liquid ^3He , with H. A. Fairbank, Proceedings Symposium on Solid and Liquid ^3He , Ohio State University, Columbus, Ohio, 32 (August 1957).
5. Density and Expansion Coefficient of Liquid ^3He Below 1 K, with H. A. Fairbank, J. Phys. Fluids 2, 5 (1959).
6. Heat Transport in Liquid ^3He , with H. A. Fairbank, Phys. Rev. 115, 1359 (1959).
7. Thermal Conductivity of 70-30 Cupro-Nickel Alloy from 0.3 K to 4.0 K, with H. A. Fairbank, Rev. Sci. Instrum. 31, 660 (1960).
8. The Dielectric Constant, Density, Expansion Coefficient and Entropy of Compression of Liquid ^3He Below 1 K, Helium Three, with H. A. Fairbank and E. J. Walker, Proceedings of the 2nd Symposium on Liquid and Solid Helium Three, edited by J. G. Daunt, Ohio State University, (1960).
9. Dielectric Constant, Density, Expansion Coefficient and Entropy of Compression of Liquid ^3He Below 1 K, with H. A. Fairbank and E. J. Walker, Phys. Rev. 121, 1258 (1961).
10. Existence of Minima in the Melting Curves of ^3He - ^4He Mixtures, with H. Weinstock, L. P. Lipschultz, D. F. Kellers and P. M. Tedrow, Phys. Rev. Lett. 9, 193 (1962).
11. Phase Diagram of ^3He - ^4He Mixtures, with P. M. Tedrow, Phys. Lett. 9, 130 (1964).
12. Measurements of T1 in Liquid ^3He Near the Melting Curve Minimum, with H. Weinstock, E. P. Lipschultz and C. F. Kellers, Proceedings of the 8th International Conference on Low Temperature Physics, edited by R. O. Davies, (Butterworths, 1963), 60.
13. Measurements of the Melting Curves of ^3He - ^4He Mixtures, with H. Weinstock, L. P. Lipschultz and C. F. Kellers, Proceedings of the 8th International Conference on Low Temperature Physics, edited by R. O. Davies, (Butterworths, 1963), 41.
14. Quadruple Point ^3He - ^4He Mixtures, with P. M. Tedrow, Phys. Rev. Lett. 13, 388 (1964).
15. Shear Waves in Solid ^4He , with F. P. Lipschultz, Phys. Rev. Lett., 14, 1017 (1965).

16. On the Phase Diagram of ^3He - ^4He Mixtures, with P. M. Tedrow, Proceedings of the 9th International Conference on Low Temperature Physics, edited by J. G. Daunt, D. O. Edwards, F. J. Milford and M. Yaqub, (Plenum Press, 1965), 248.
17. Evidence for a Quadruple Point in ^3He - ^4He Mixtures, with F. P. Lipschultz and P. M. Tedrow, Proceedings of the 9th International Conference on Low Temperature Physics, edited by J. G. Daunt, D. O. Edwards, F. J. Milford and M. Yaqub, (Plenum Press, 1965). 1
18. Optical Birefringence and Crystal Growth of Hexagonal Close-Packed ^4He from Superfluid Helium, with O. W. Heybey, Phys. Rev. Lett. 19, 106 (1967).
19. Phase Separation and the Superfluid Transition in Liquid ^3He - ^4He , with E. H. Graf and J. D. Reppy, Phys. Rev. Lett. 19, 417 (1967).
20. Sound Propagation in Solid Helium, with F. P. Lipschultz, Proceedings of the 10th International Conference on Low Temperature Physics, Moscow, U.S.S.R. (1966).
21. Helium-3 Liquid, McGraw Hill Yearbook of Science and Technology (New York, 1963), 277.
22. Liquid-Solid Phase Transition in ^3He - ^4He Mixtures, with P. M. Tedrow, Phys. Rev. 181, 399 (1969).
23. Electron Tunneling in Superconducting Cd -Al Junctions, with P. Kumbhare and P. M. Tedrow, Phys. Rev. 180, 519 (1969).
24. Nuclear Magnetic Susceptibility of Solid ^3He Cooled by Compression from the Liquid Phase, with J. R. Sites, D. D. Osheroff and R. C. Richardson, Phys. Rev. Lett. 23, 836 (1969).
25. Sound Propagation in hcp Solid Helium Crystals of Known Orientation, with R. H. Crepeau, O. Heybey and S. A. Strauss, Phys. Rev. A3, 1162 (1971).
26. Spin Diffusion in Liquid ^3He : The Effect of Leggett and Rice, with L. R. Corruccini, D. D. Osheroff and R. C. Richardson, Phys. Rev. Lett. 27, 650 (1971).
27. Evidence for a New Phase of Solid ^3He , with D. D. Osheroff and R. C. Richardson, Phys. Rev. Lett. 28, 885 (1972).
28. Spin-Wave Phenomena in Liquid ^3He Systems, with L. R. Corruccini, D. D. Osheroff and R. C. Richardson, J.L.T.P. 8, 229, (1972).
29. Magnetic and Thermal Properties of Solid and Liquid ^3He Near the Melting Curve, Proceedings of the 13th International Conference on Low Temperature Physics, Boulder, Colorado (Plenum Press, 1972), Vol. 2, 25.
30. Consequences of Anisotropic Sound Velocity in hcp ^4He , with R. H. Crepeau, Phys. Rev. A6, 516 (1972).
31. New Magnetic Phenomena in Liquid ^3He Below 3mK, with D. D. Osheroff, W. J. Gully and R. C. Richardson, Phys. Rev. Lett. 29, 920 (1972).
32. Attenuation of Zero Sound and the Low-Temperature Transitions in Liquid ^3He , with D. T. Lawson, W. J. Gully, S. Goldstein and R. C. Richardson, Phys. Rev. Lett. 30, 541 (1973).
33. Magnetic Properties of Liquid ^3He Below 3 mK, with D. D. Osheroff, W. J. Gully and R. C. Richardson, Proceedings of the 13th International Conference on Low Temperature Physics, Boulder, Colorado (Plenum Press, 1972), Vol. 2, 134.
34. Effects of Magnetic Field on the "A" Transition in Liquid ^3He , with W. J. Gully, D. D. Osheroff, D. T. Lawson and R. C. Richardson, Phys. Rev. A8, 1633, (1973).
35. The Low Temperature Viscosity of Normal Liquid ^3He , with D. T. Lawson, W. J. Gully, S. Goldstein, J. D. Reppy and R. C. Richardson, J.L.T.P., 13, 503 (1973). 2
36. First Order Character of the B Transition in Liquid ^3He , with W. P. Halperin, R. A. Buhrman and R. C. Richardson, Phys. Lett. 45A, 233, (1973).
37. The Low Temperature Phases of Liquid ^3He , with R. C. Richardson, Nobel Symposium - Medicine and Natural Sciences, (Academic Press, 1973), Vol. 24, 84.

38. Attenuation of Zero Sound and the Several Low Temperature Phases of Liquid ^3He , with D. T. Lawson, W. J. Gully, S. Goldstein and R. C. Richardson, *J. Low Temp. Phys.* 15, 169, (1974).
39. Spin Diffusion Effects in Liquid ^3He , with L. R. Corruccini, D. D. Osheroff and R. C. Richardson, *Proceedings of the 13th International Conference on Low Temperature Physics, Boulder, Colorado, (Plenum Press, 1972), Vol. 1.1, 411.*
40. NMR Studies of the A Phase of Liquid ^3He , with H. M. Bozler, M. E. R. Bernier, W. J. Gully and R. C. Richardson, *Phys. Rev. Lett.* 32, 875, (1974).
41. Superfluid Helium Three—Past and Present, *Liquid and Solid Helium, Proceedings of the EPS Topical Conference, Haifa, edited by Kuper, Lipson and Revzen, (John Wiley and Sons, 1974), 67.*
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43. Transverse and Longitudinal NMR in Liquid ^3He A, *Liquid and Solid Helium*, with M. E. R. Bernier, W. J. Gully, H. M. Bozler and R. C. Richardson, *Proceedings of the EPS Topical Conference, Haifa, edited by Kuper, Lipson and Revzen, (John Wiley and Sons, 1974), 135.*
44. Anisotropy in Superfluid ^3He and the Attenuation of Zero Sound, with D. T. Lawson and H. M. Bozler, *Phys. Rev. Lett.* 34, 121, (1975).
45. Sound Propagation and Anisotropy in Liquid ^3He A, in *Quantum Statistics and the Many Body Problem*, with D. T. Lawson and H. M. Bozler, edited by Trickey, Kirk and Dufty, (Plenum Press, Sanibel Conference, 1975), 19.
46. Nuclear Spin Ordering of Solid ^3He in a Magnetic Field, *Quantum Statistics and the Many Body Problem*, with R. B. Kummer, E. D. Adams, W. P. Kirk, A. S. Greenberg, R. M. Mueller and C. V. Britton, edited by Trickey, Kirk and Dufty, (Plenum Press, Sanibel Conference, 1975), 83.
47. Effects of a Magnetic Field on Nuclear Spin Ordering in Solid ^3He , with R. B. Kummer, E. D. Adams, W. P. Kirk, A. S. Greenberg, R. M. Mueller and C. V. Britton, *Phys. Rev. Lett.* 34, 517 (1975).
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52. Magnetic Field Dependence of the Melting Curve and of the Superfluid B Transition, with R. B. Kummer, R. M. Mueller, E. D. Adams, W. P. Kirk and A. S. Greenberg, *Proceedings of the 14th International Conference on Low Temperature Physics, Vol. 1, 509 (1975).*
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56. Some New NMR Effects in $^3\text{He-A}$, Quantum Fluids and Solids, with R. W. Giannetta, C. M. Gould and E. N. Smith, edited by Trickey, Adams and Dufty, (Plenum Press, 1977), 133.
57. Some Unusual NMR Effects in Superfluid $^3\text{He-A}$, *Physica* 90B, 35 (1977).
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59. Superfluid ^3He , with N. D. Mermin, *Sci. Am.* 6, Vol. 235, 56-71 (1976).
60. Evidence for a Metastable Mode of Superfluid $^3\text{He-A}$, with R. W. Giannetta and E. N. Smith, *Phys. Lett.* 62A, 335 (1977).
61. Superfluid ^3He , The Physics of Liquid and Solid Helium Part II, with R. C. Richardson, edited by Benneman and Ketterson, (John Wiley and Sons, New York, 1978), 287-496.
62. Experimental Aspects of Superfluid ^3He , Proceedings of the Hakone Conference on Ultralow Temperature Physics, Hakone, Japan, *Physics at Ultra Low Temperatures*, 1, (1978), (Phys. Soc. of Japan).
63. Order Parameter Singularities in Superfluid ^3He Confined to Small Cylinders, with C. M. Gould, Proceedings of the 15th International Conference on Low Temperature Physics, *J. Phys. C* (Paris), 6-65 (1978).
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65. Observation of a New Sound Attenuation Peak in Superfluid $^3\text{He-B}$, with R. W. Giannetta, A. Ahoneon, E. Polturak, J. Saunders, E. K. Zeise and R. C. Richardson, *Phys. Rev. Lett.* 45, 262 (1980).
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67. Spin Aligned Hydrogen: Some Considerations for ESR vs. NMR Experiments and Preliminary Observations of $\text{H}\downarrow$ at Low Temperatures, with B. Yurke, D. Ignier, E. N. Smith, B. Johnson, J. Denker, C. Hammel and J. Freed, *J. Phys. C7* (Paris), 41, c7-177 (1980).
68. Soliton-like Propagation of Sound in Superfluid ^3He , with E. Polturak, P. G. N. de Vegvar and E. K. Zeise, *Phys. Rev. Lett.* 46, 1588 (1981).
69. Nonlinear Phenomena in the Propagation of Zero Sound in $^3\text{He-B}$, with E. Polturak, P. G. N. deVegvar, E. K. Zeise, *Physica* 107B, 687-688 (1981).
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72. Pulsed NMR Studies of Superfluid ^3He , with R. W. Giannetta and E. N. Smith, *J. Low Temp. Phys.* 45, 335 (1981).
73. Spectroscopy With Sound On Superfluid $^3\text{He-B}$, *Int. J. Quantum Chem.* 23, 1191 (1983).
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75. Observation of Nuclear Spin Waves in Spin Polarized Hydrogen Gas, with B. R. Johnson, J. S. Denker, N. Bigelow, L. P. L'evy, and J. H. Freed, *Phys. Rev. Lett.* 52, 1508 (1984).
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78. Phase Diagram Measurements of Superfluid ^3He in Large Magnetic Fields, with D. C. Sagan, P. G. N. deVegvar, E. L. Ziercher, L. Friedman, E. Polturak and S-S. Yan, Proceedings of the 17th

- International Conference on Low Temperature Physics, edited by V. Eckern, A. Schmid, W. Weber and H. Wühl, 993 (1984).
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