

Originals

April 1980

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- 1980 Admitted to practice patent law before the U.S. Patent and Trademark office as an agent, registration number 29,800, June 23.
- 1980 "Man of the Year Award," Abrasive Engineering Society, Milwaukee, Wisconsin
- 1978 "Karl G. Maser Research Award," Brigham Young University, Provo, Utah August 31
- 1977 "International Prize for New Materials," The American Physical Society, San Diego, California, March 22
- 1975 "Distinguished Alumni Award," Weber State University, Ogden, Utah, October 16
- 1974 "IR-100 Award," Industrial Research Magazine for Indestructible Sintered Diamond Tools, Chicago, October 8
- 1973 "Engineering Materials Achievement Award," The American Society for Metals, Chicago
- 1973 American Chemical Society Tour Speaker (Texas, Louisiana)
- 1973 The American Society for Metals "Engineering Materials Achievement Award," Chicago, October 2, Conrad Hilton Grand Ballroom
- 1972 American Chemical Society Tour Speaker (Oregon, Washington)
- 1972 Fellow, The American Institute of Chemists
- 1972 The Intermountain Society of Inventors and Designers "Certificate for Distinguished Service and Leadership in the Field of Invention and Designing," Salt Lake City, Utah, May 20
- 1972 Fellow, The Utah Academy of Science, Arts, and Letters
- 1972 The American Chemical Society "Award for Creative Invention," Boston, Massachusetts, April 10
- 1971 Honorary Doctor of Science Degree, Brigham Young University, Commencement Exercises, Provo, Utah, May 28
- 1971 "Outstanding Manhood Award," presented by Associated Men Students, Brigham Young University, Provo, Utah April 13
- 1970-1973 Member of National Academy of Science--National Research Council Evaluation Panel for the National Bureau of Standards Heat Division
- 1970 Cortez Honors Lecture, Weber State University, December 10, Ogden, Utah
- 1970 American Institute of Chemists' "Chemical Pioneer Award," Pittsburgh, Pennsylvania, May 16
- 1968- Member of Joint Army-Navy-Air Force Thermochemical Tables Advisory Group
- 1967- Distinguished Professor of Chemistry and Chemical Engineering, Brigham Young University

- 1967 Robert A. Welch Foundation, "Lecturer in Chemistry," Texas Universities
- 1966-1969 Member of Editorial Board, "The Review of Scientific Instruments"
- 1965 The American Chemical Society, Salt Lake Section's "Utah Award,"
University of Utah, Salt Lake City, December 9
- 1965 The National Association of Manufacturer's "Modern Pioneers in Creative
Industry Award," The Waldorf Astoria, New York City, December 2
- 1965 The Brigham Young University's "James E. Talmage Scientific Achievement
Award," Baccalaureate Exercises, Provo, Utah, May 27
- 1964 Third Annual "Olin Mathesen Lecture," Yale University, New Haven,
Connecticut, April 22
- 1964 First "Annual Faculty Lecture," Brigham Young University, Provo, Utah,
April 8
- 1962 The American Society of Tool and Manufacturing Engineers "Research Medal,"
New York City
- 1961-1964 Member of Editorial Board, "Inorganic Chemistry"
- 1960-1961 President, Utah Academy of Sciences, Arts and Letters
- 1960 Fellow, American Association for the Advancement of Science
- 1959-1963 Alfred P. Sloan Foundation Research Fellow
- 1959 Chairman, Salt Lake Section, American Chemical Society
- 1954 First to synthesize diamond, December 16, G.E. Research Lab, Schenectady,
New York

79. Karl A. Miller and H. Tracy Hall, "High Pressure Synthesis of Lutetium Trilead," *J. Less-Common Metals*, 32, 275-78 (1973).
80. J. F. Cannon, D. L. Robertson, H. T. Hall and A. C. Lawson, "The Effect of High Pressure on the Crystal Structure of LaOs_2 and CeOs_2 ," *J. Less-Common Metals*, 31, 174 (1973).
81. A. C. Lawson, J. F. Cannon, D. L. Robertson and H. T. Hall, "Superconductivity of LaOs_2 ," *J. Less-Common Metals*, 32, 173-74 (1973).
82. J. F. Cannon, D. L. Robertson, H. T. Hall and A. C. Lawson, "High Pressure Synthesis of Beta-W-Type Nb_3Te ," *J. Phys. Chem. Solids*, 35, 1181-82 (1974).
83. M. D. Horton, B. J. Pope and H. T. Hall, "Sintered Diamond," International Industrial Diamond Association Symposium, Washington, D. C. (1974).
84. B. J. Pope, M. D. Horton, H. T. Hall, L. S. Bowman and H. Adaniya, "Sintered Diamond: Its Possible Use as a High Thermal Conductivity Semiconduction Device Substrate," Proc. 4th International Conference on High Pressure (AIRAPT), Kyoto, Japan (1974).
85. B. J. Pope, M. D. Horton, H. T. Hall and S. DiVita, "Selection and Treatment of Diamond Particulates in Preparation for High Thermal Conductivity Ceramics by Sintering at High Temperature and Ultra-high Pressure," Proc. Ninth Annual University Conference on Ceramic Science of the American Ceramic Society, Orlando, Florida (1975).
86. J. F. Cannon and H. T. Hall, "Effect of High Pressure on the Crystal Structures of Lanthanide Trialuminides," *J. Less-Common Metals*, 40, 313-28 (1975).
87. H. Tracy Hall, "Retraction System for Multi-anvil Presses," *Rev. Sci. Instrum.*, 46, 436-38 (1975).
88. H. Tracy Hall, "Sintered Diamond," Brigham Young University Studies, 16, 43-47 (1975) [Special Centennial Issue].
89. J. F. Cannon, D. M. Cannon, and H. T. Hall, "High Pressure Synthesis of SmB_2 and GdB_{12} ," *J. Less Common Metals* 56, 83-90, (1977).
90. J. F. Cannon, H. T. Hall, "High Pressure Synthesis of Lanthanide/Boron and Actinide/Boron Compounds," in *Rare Earths in Modern Science and Technology*, edited by G. J. McCarthy and J. J. Rhyne, Plenum Press, New York & London (1978) pp. 219-224.
91. Chapter I, "Introduction" to Chemical Experimentation Under Extreme Conditions, *Techniques of Chemistry*, Vol IX, Eds. A. Weissberger and B. Rossiter, John Wiley & Sons (1980) pp. 1-8.
92. Chapter II, "High Pressure Techniques", *Ibid.* pp. 9-72.
93. H.T. Hall, This Week's Citation Classic, Ultra-high pressure, High-temperature Apparatus: The "Belt," Current Contents, ISI Press, 41, 14 (1980).