

**HONORS, AWARDS, AND DISTINCTIONS OF H. TRACY HALL  
WHILE AT BRIGHAM YOUNG UNIVERSITY**

**1980**

1. Admitted to practice patent law before the U. S. Patent and Trademark Office.
2. Listed in "Who's Who In The World".
3. U.S. Patent No. 22,941,242, H.T. Hall. Recognized as the most highly cited publication in the field of high pressure and featured as "THIS WEEKS CITATION CLASSIC", in Current Contents, ISI Press 41, 14, 1980.
4. "Man OF THE YEAR AWARD", Abrasive engineering Society, Milwaukee, Wisconsin.
5. Retired from Brigham Young University as DISTINGUISHED PROFESSOR, EMERITUS

**1978**

1. "KARL G. MAESER RESEARCH AWARD, Brigham Young University, Provo, Utah, August 31.
2. Listed in "Who's Who in America"

**1977**

1. "INTERNATIONAL PRIZE FOR NEW MATERIALS", The American Physical Society, San Diego, California, March 22.
2. "THE WILLARD GARDNER PRIZE" of the Utah Academy of Sciences, Arts, and Letters, awarded at the fall meeting of the Academy held at the University of Utah, December 2.

**1976**

1. American Chemical Society TOUR SPEAKER,

**1975**

1. "DISTINGUISHED ALUMNI AWARD", Weber State university, Ogden, Utah, October 16.

**1974**

1. "IR-100 AWARD", Industrial Research Magazine for the invention of indexible, sintered diamond cutting tools, Chicago, October 8.

**1973**

1. "ENGINEERING MATERIALS ACHIEVEMENT AWARD", The American Society for Metals, Chicago, October 2, Conrad Hilton Grand Ballroom.
2. American Chemical Society TOUR SPEAKER, (Texas, Louisiana).

**1972**

1. American Chemical Society TOUR SPEAKER, (Oregon, Washington)
2. Elected **FELLOW**, The American Institute of Chemists.
3. CERTIFICATE FOR DISTINGUISHED SERVICE AND LEADERSHIP IN THE FIELD OF INVENTION AND DESIGNING, The Intermountain Society of Inventors and designers, Salt Lake City, Utah, May 20.
4. Elected **FELLOW**, The Utah Academy of Science, Arts, and Letters.
5. The American Chemical Society GOLD MEDAL and "AWARD FOR CREATIVE

INVENTION", Boston, Massachusetts, April 10. (For being the first to synthesize diamond).

**1971**

1. HONORARY DOCTOR OF SCIENCE DEGREE, Brigham Young University, Commencement Exercises, Provo, Utah, May 28.
2. "OUTSTANDING MANHOOD AWARD", Associated Men Students, Brigham Young University, Provo, Utah, April 13.

**1970**

1. Member of National Academy of Science-National Research Council Evaluation Panel for the National Bureau of Standard's Heat Division. (1970-73)
2. "CORTEZ HONORS LECTURE", Weber State University, December 10, Ogden, Utah.
3. "CHEMICAL PIONEER AWARD", American Institute of Chemist's, Pittsburg, Pennsylvania, May 16.
4. Listed in "Who's Who In The West."

**1968**

1. Member of JOINT ARMY-NAVY-AIR FORCE THERMOCHEMICAL TABLES ADVISORY GROUP.

**1967**

1. Designated: "DISTINGUISHED PROFESSOR OF CHEMISTRY AND CHEMICAL ENGINEERING", Brigham Young University.
2. "LECTURER IN CHEMISTRY", Robert A. Welch Foundation, Texas Universities.

**1966**

1. Member of Editorial Board, "The Review of Scientific Instruments", (1966-69).

**1965**

1. "UTAH AWARD" of the Salt Lake City section of the American Chemical Society, December 9.
2. "MODERN PIONEERS IN CREATIVE INDUSTRY AWARD", The National Association of Manufacturer's, The Waldorf Astoria, New York City, December 9.
3. "JAMES E. TALMAGE SCIENTIFIC ACHIEVEMENT AWARD", Baccalaureate Exercises, Brigham Young University, Provo, Utah, May 27.

**1964**

1. First "ANNUAL FACULTY LECTURE", BYU, Provo, Utah, April 8.
2. Third Annual "OLIN MATHESON LECTURE", Yale University, New Haven, Connecticut, April 27.
3. Listed in "LEADERS IN AMERICAN SCIENCE"

**1963**

1. Discovery of the first pressure induced phase change from a *close-packed* to a *non-close-packed* structure (FCC to BCC in Ytterbium), formerly thought to be impossible, was featured on the front cover of SCIENCE, 146, 1297-1299 (1964).

**1962**

1. "RESEARCH MEDAL", The American Society of Tool and Manufacturing Engineers, New York City.
2. Invention of the Anvil Guide & higher order Polyhedral Presses.
3. Invention of high pressure, high temperature X-ray diffraction presses.

**1961**

1. Member of Editorial Board, INORGANIC CHEMISTRY, (1961-64).

**1960**

1. President, Utah Accademy of Sciences, Arts, and Letters (1960-61).
2. Elected **FELLOW**, American Association for the Advancemnt of Science.

**1959**

1. Alfred P. Sloan Foundation **Research Fellow**, (1959-1963).
2. **Chairman**, Salt Lake Section, American Chemical Society.
3. Invention of the **Tetrahedral Press**, U.S. Patent No. 2,918,699.

**1955**

1. The determination of the first melting curve under simutaneous high pressure, high temperature conditions, J. Phys. Chem. 59, 1144-1146 (for Germanium).
2. Director of Research & Creative Endeavor, Brigham Young University, 1955-1967.