



James E. Hall, Ph.D.
Partner

Education:

Ph.D. – Nuclear Physics
Iowa State University
Ames, Iowa

B. A. – Physics and Mathematics
Texas Christian University
Fort Worth, TX

M.S. – Nuclear Physics
Iowa State University
Ames, Iowa

Executive Business Program
Stanford University
Palo Alto, CA

Expertise:

Multiphase Flowmeters
Commingling & Allocation
Flow Instrumentation

Field Studies
Ultrasonic Flowmeters
Technical Due Diligence

Calibration and Traceability
Sensor Technology
Nuclear Technology

Relevant Experience:

Partner, Letton-Hall Group, Houston, Texas – 2001 to Present.

Co-founded this consulting group to provide expertise in the areas of measurement, control and allocation of flow of liquids and natural gas, introduction of new technology, and technical due diligence.

Senior Vice President, Daniel Measurement and Control, Houston, Texas – 1992 to 2001

Responsible for the day-to-day operations of this \$140 million company which is the leading producer of flow measurement primary elements such as orifice, ultrasonic and turbine meters and gas chromatographs for natural gas analysis; was instrumental in the growth of this company through the introduction of new products by in-house development programs, partnering with other companies, external-funded research and product line acquisitions.

Director of Engineering and Technology, Statham Transducer Division of Schlumberger, Oxnard, California – 1986 to 1991.

Successfully rebuilt and strengthened the R & E organization after acquisition of this company; defined and led development and introduction of new products in the areas of sputtered thin film and micromachined silicon pressure transducers and transmitters for aerospace, nuclear, petroleum, HP/HT and sanitary applications.

Head of the Technology Department, Etudes et Productions Schlumberger, Paris, France – 1983 to 1986.

Organized, staffed, contributed technically and managed this new engineering department which contained sections responsible for electronic, mechanical and software technology, technical documentation and the computing center at this 950-person engineering and manufacturing center; defined and initiated a 3-year training program for all engineers.

Head of Physics Department, Schlumberger Well Services, Houston, Texas – 1972 to 1983.

Began as a Product Development Engineer and progressed into management positions at the section head and department head levels; during 3 1/2 years as head of the 110-person Physics Dept., managed the design, development and product engineering of instrumentation for petroleum exploration using nuclear, sonic, flow/pressure and temperature sensors in conjunction with high temperature electronics.

Professional Affiliations:

- Society of Petroleum Engineers (SPE)
- Institute of Electrical and Electronics Engineers (IEEE)

Representative Publications:

Deepwater Measurement Verification – a DeepStar-RPSEA Mandate, 26th North Sea Flow Measurement Workshop, St. Andrews, Scotland, October 2008 (with W. Letton and R. Webb).

Three Years of Experience of Wet Gas Allocation on Canyon Express, 23rd North Sea Flow Measurement Workshop, Tonsberg, Norway, October 2005 (with W. Letton and A. Singh).

Wet Gas Allocation on the Canyon Express Project, 21st North Sea Flow Measurement Workshop, Tonsberg, Norway, October 2003 (with W. Letton, C. Cooley, and J.-P. Couput).

Operation of Ultrasonic Flow Meters at Conditions Different From Their Calibration, 20th North Sea Flow Measurement Workshop, St. Andrews, Scotland, October 2002 (with W. Freund and K. Zanker).

The Influence of Speed of Sound Changes on Ultrasonic Flow Meter Calibrations, 5th International Symposium on Fluid Flow Measurement, Washington, D.C., April 2002 (with W. Freund and K. Zanker).

Solar-Powered Systems for Gas Measurement, XII Jornadas de Gas, Puerto La Cruz, Venezuela, June, 1996.

Performance Characteristics of Transit Time Ultrasonic Flow Meters, 3rd Latin American Gas Congress, Buenos Aires, October 1995. (With K. Warner and W. Freund).

Remote Electronic Metering Advances, **World Oil**, September 1994.

Solar-Powered Systems for Gas Transmission Measurement, Control and Communication, World Gas Conference, Milan, June, 1994.

Micromachined Silicon Sensors for Pressure Measurements, ISA Edmonton '91 Symposium, Edmonton, Alberta, April 1991.

Differential Pressure Transducer for Aerospace with High Overload Protection, Proceedings of 34th International Instrumentation Symposium, I.S.A., Albuquerque, NM, May, 1989. (with P. Tack and D. Mei).

Micromachined Silicon-Based Pressure Transducer for High Temperature Operation, Proceedings of 34th International Instrumentation Symposium, I.S.A., Albuquerque, NM, May, 1989. (with P. Tack and M. Miller).