

# Oil and Gas Flow Rate Measurement: It's Not that Simple

Presentation to  
Ernest E. Smith Oil, Gas, and Mineral  
Law Institute

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[www.lettonhall.com](http://www.lettonhall.com)

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## The Letton Hall Group

- **Founded by Jim Hall and Chip Letton in early 2001**
- **Deep domain knowledge in oil, gas and multiphase flow**
  - Largest group of senior experts in flow measurement domain
  - Experience in measurement R&D, system design, operations
  - Over 700 publications, 45 patents
- **Industry leadership in technology and standards development**
- **Worldwide business and cultural experience**



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# Oil and Gas Flow Rate Measurement

## Goal Today:

Convince you that this is an oilfield technology area where it is very easy to get it wrong.

# Common Liquid Flow Meters

- **Positive Displacement (PD)**
- **Turbine**
- **Coriolis**
- **Transit-Time Ultrasonic**
- **Differential**
- **Vortex**
- **Magnetic**
- **Pitot**
- **Doppler Ultrasonic**

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