

# 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)

1

## 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



2

2

# 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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