



Eric Kelner, P.E.

**List of Papers, Presentations and Industry
Committee Participation**

Papers:

Pipeline Modeling Improves Measurement and Control – Provides Insight to Location of Liquids, **E. Kelner**, Ayala L.H., Garcia-Hernandez A., Pipeline & Gas Journal, July 2007.

The Fluid Properties Meter, **E. Kelner**, Technology Today, Fall 2006

API MPMS Chapter 22.2 Verification and Testing Protocol for Differential Flow Meters, R. Burkey, **E. Kelner**, E. Reid, Pipeline & Gas Journal, July, 2006

Metering Research Facility Program: Continuing Development of a Low Cost Inferential Natural Gas Energy Flow Rate Prototype Retrofit Module, D.L. George, R. Burkey, **E. Kelner**, T.B. Morrow, T.E. Owen, Gas Research Institute Topical Report GRI-05/0135, GRI Contract No. 8743

Uncertainties in Natural Gas Properties Determined by Gas Chromatography, D.L. George, **E. Kelner**, 6th International Symposium on Fluid Flow Measurement, Queretaro, QRO, Mexico, May 15-18, 2006.

Development of a Low Cost Inferential Natural Gas Energy Flow Rate Prototype Retrofit Module, **E. Kelner**, et al., U.S. Department of Energy Report Covering 2002-2005, DOE Cooperative Agreement No. DE-FC21-96MC-33033,

Recent Flow Measurement Research at Southwest Research Institute, **E. Kelner**, CIATEQ 6th Seminar on Fluid Flow Measurement, Guadalajara, Mexico, August 25, 2005

A New Method for Energy Flow Rate Measurement of Natural Gas, **E. Kelner**, E. Bowles, M. Nored, G. Stobie, 3rd International Southeast Asia Hydrocarbon Flow Measurement Workshop, March 9-11, 2004

Critical Issues in Gas Meter Station Design, **E. Kelner**, CIATEQ 4th Seminar on Fluid Flow Measurement, July 9-11, 2003, Veracruz, Mexico

Development of a Low Cost Inferential Natural Gas Energy Flow Rate Prototype Retrofit Module - 2000-2002, **E. Kelner**, et al., U.S. Department of Energy, DOE Cooperative Agreement No. DE-FC21-96MC-33033

The Development and Testing of a Low Cost Inferential Natural Gas Energy Flow Rate Prototype Retrofit Module, **E. Kelner**, Paper 02-OP-43, 2002 AGA Operations Conference, Chicago, Ill.

Latest Revision to API Gas Measurement Standard Identifies Sample Distortion Sources, **E. Kelner**, *Oil & Gas Journal*, December 17, 2001, pp 50-56.

Update on Gas Sampling Research – Avoiding Gas Sample Distortion Through the Application of the 2001 Revision of Chapter 14.1 of the American Petroleum Institute Manual of Petroleum Measurement Standards, **E. Kelner**, 6th International Pipeline Congress, Merida, Yucatan, Mexico, November 14-16, 2001

GRI Metering Research Facility, **E. Kelner**, 2nd CIATEQ Flow Measurement Seminar, July 11-13, 2001, Queretaro, QRO, Mexico

The Revised Natural Gas Sampling Standard – A Review of Changes and Additions, **E. Kelner**, Paper 01-OP-044, 2001 AGA Operations Conference, Dallas, TX

The Revised Natural Gas Sampling Standard – A Review of Changes and Additions, **E. Kelner**, GTI Natural Gas Quality, Energy Measurement, Metering and Utilization Practices Symposium, March 5-6, 2001 Lake Buena Vista, Fla.

GRI Metering Research Facility, **E. Kelner**, Pemex 5th International Pipeline Congress and Exhibition, October 18-20, 2000

Minimizing Orifice Meter Installation Lengths, T. Morrow, **E. Kelner**, E. Bowles, *Pipeline & Gas Journal*, July 1, 2000.

Development of a Low Cost Inferential Natural Gas Energy Flow Rate Prototype Retrofit Module – 1999-2000, T.B. Morrow, **E. Kelner**, A. Minachi, U.S. Department of Energy Report Covering 1999-2000, DOE Cooperative Agreement No. DE-FC21-96MC-33033

Development of a Compact Header Orifice Meter Station, T.B. Morrow, **E. Kelner**, J.E. Gallagher, Paper 00-OP-20, 2000 AGA Operations Conference, Denver, CO

Overview of Recent Natural Gas Metering Research at Southwest Research Institute, **E. Kelner**, Hydrocarbon Flow Measurement Seminar, Villahermosa, Tabasco, Mexico, May 12, 2000.

Compact Orifice Meter Station Project, **E. Kelner**, T.B. Morrow, 4th International Symposium on Fluid Flow Measurement, June 27-30, 1999, Denver, CO

The Critical Details of Good Gas Sampling Technique, **E. Kelner**, Paper 99-OP-035, 1999 AGA Operations Conference, Cleveland, Oh.

A Technology Assessment and Feasibility Evaluation of Natural Gas Energy Flow Measurement Alternatives, K.A. Behring, **E. Kelner**, A. Minachi, C.R. Sparks, T.B. Morrow, S.J. Svedeman, U.S. Department of Energy Report, DOE Cooperative Agreement No. DE-FC21-96MC-33033, January, 1999

Orifice Meter Installation Effects: Effect of Variable Spacer Length Between Two 90 Degree Ells Out-of-Plane, T.B. Morrow and **E. Kelner**, Paper 98-OP-038, 1998 AGA Operations Conference – Seattle, Wa.

Viscous Sublayer Flow Visualizations at $R_\theta \approx 1,500,000$, J.C. Klewicki, M.M. Metzger, **E. Kelner**, E.M. Thurlow, *Physics of Fluids* 7 (4) April, 1995

Presentations:

Flow Meter Installation Effects, **E. Kelner**, 2006 Appalachian Gas Measurement Short Course, Houston, TX

Conversion from Volume to Energy Measurement, **E. Kelner**, 2006 American School of Gas Measurement Technology, Houston, TX

Lessons Learned from the API 14.1 Research Project, **E. Kelner**, and D.L. George 2003 American School of Gas Measurement Technology

Heat Quantity Calculation Relating to Water Vapor in Natural Gas, **E. Kelner**, 2002 International School of Hydrocarbon Measurement, Oklahoma City, Ok

Update on Gas Sampling Research, **E. Kelner**, 2001 American School of Gas Measurement Technology, Houston, TX

Update on Gas Sampling Research, **E. Kelner**, 2001 International School of Hydrocarbon Measurement, Oklahoma City, OK

The Critical Details of Good Gas Sampling Technique, **E. Kelner**, 1999 American School of Gas Measurement Technology, Houston, TX

Effect of Swirl and Velocity Profile Asymmetry on Flow Conditioner Performance for Orifice Meters, **E. Kelner**, CIATEQ Gas and Liquid Flow Measurement Course, June 2, 1999, Queretaro, QRO, Mexico

Gas Measurement for Accountants, **E. Kelner**, Southern Gas Association Gas Accounting Short Course, May 19-21, 1998, Houston, TX

Standards Committee Participation:

American Gas Association Transmission Measurement Committee

American Petroleum Institute Committee on Gas Fluids Measurement