

Two posters proposals to be presented at the 17<sup>th</sup> International Flow Measurement Conference (FLOMEKO 2016):

**1. Highlights of Changes in Recent Revision of AGA Report No. 8: Thermodynamic Properties of Natural Gas and Related Gases**

- AGA 8 was last revised in 1994 based on pipeline quality natural gas.
- In addition to pipeline quality gas, the current revision includes production quality gas using GERG 2008 equation of state.
- The revised AGA 8 has now two parts –
  - Part 1 has the same equations of state as the current AGA 8, but the ranges of gas composition, operating pressure and temperature have been modified. Also, the methods to implement the GROSS EOS have been modified.
  - Part 2 uses the GERG 2008 equation of state for gas compositions outside the ranges in Part 1 and higher operating pressure and temperature.
- Both parts 1 & 2 now includes .xls file and the code that users can use to implement the equations.

**2. Highlights of Changes in Recent Revision of AGA Report No. 9: Measurement of Gas by Multipath Ultrasonic Meters**

- Since the last revision of AGA 9 in 2007, substantial improvements in meter's diagnostic capabilities have been made by the meter manufacturers.
- The revised AGA 9 addresses the use of these diagnostic capabilities to help monitor remotely meter's continued performance.
- Meter installation guidelines have been expanded and better defined.
- Out-of-the box performance requirements remains essentially the same with some additions for new smaller meter sizes.
- Some chapters and appendices have been reorganized for a better flow of the document.