

Title of presentation	Title of conference	Author(s)	Date of conference
<b>Traceable measurement and uncertainty analysis of the calorific value of methane with the French reference calorimeter: application to renewable energy gases</b>	International conference on chemical thermodynamics (ICCT)	F. Haloua, E. Foulon, B. Hay	July 2014
<b>Measuring contents of impurities in biogas: siloxanes and ammonia</b>	Conference of the European Biogas Association 2014	Jianrong Li, Katarina Hafner, Stefan Persijn, and Adriaan M.H. van der Veen	Sep 30 – Oct 02, 2014
<b>Developing reference materials and novel metrological methods for measuring contents of key impurities in biogas</b>	International Conference on Anaerobic Digestion (BiogasScience 2014)	Jianrong Li and Adriaan M.H. van der Veen	26-30 October 2014
<b>Integration of BioGas in the Natural Gas Grid: Thermodynamic Characterization of BioGas Like Mixture</b>	20th European Conference on Thermophysical Properties: ECTP2014	Roberto Hernández-Gómez, José J. Segovia, María C. Martín, Miguel A. Villamañán, Teresa E. Fernández-Vicente, Dolores del Campo, César R. Chamorro	September, 2014
<b>Laser spectroscopic CO measurements in the near and mid infrared regions</b>	Presentation at MIRSENS 2015, International workshop on opportunities and challenges in mid-infrared laser-based gas sensing	J. A. Nwaboh/ PTB, O. Werhahn/ PTB, V. Ebert/ PTB	1/3/2015
<b>Isotope Metrology Using Mid-IR Spectroscopy</b>	Presentation at MIRSENS 2015	Craig Richmond, Albert Manninen, Guillaume Genoud, Teemu Kääriäinen and Mikko Merimaa	5/3/2015

<b>Towards a measurement infrastructure for the conformity assessment of biomethane and upgraded biogas</b>	Presentation at 2nd International Conference on Renewable Energy Gas Technology (REGATEC2015)	Adriaan M.H. van der Veen and Jianrong Li	7/5/2015
<b>Progress towards development of an isothermal gas calorimeter</b>	Die 21. Kalorimetrietage	Fernando Perez-Sanz, Stefan M. Sarge, Peter Widera	May 27 to 29, 2015
<b>An optimized laser hygrometer for H<sub>2</sub>O measurements in natural gas</b>	Gas Analysis Symposium & Exhibition (GAS2015)	Javis Nwaboh, Sonja Pratzler, Olav Werhahn, Volker Ebert	10/6/2015
<b>Experimental study of the effect of water on the thermodynamic properties of pure components of biogas</b>	Poster at Nineteenth Symposium on Thermophysical Properties	A. Gómez-Hernández, R. Hernández-Gómez, J.J. Segovia, M.C. Martín, T. Fernández-Vicente, D. del Campo and C.R. Chamorro	21-26/06/2015
<b>Experimental determination of (p, ρ, T) data for binary mixtures of methane and helium</b>	Poster at Nineteenth Symposium on Thermophysical Properties	R. Hernández-Gómez, D. Tuma, J.J. Segovia, M.A. Villamañán, M.C. Martín and C.R. Chamorro	21-26/06/2015
<b>Reference gas standards and methods for the measurement of siloxanes and total silicon in biogas</b>	Presentation at GAS2015	Lucy Culleton	10/06/2015
<b>Metrology for reactive gases</b>	Presentation at GAS2015	Valerio Ferracci	10/06/2015
<b>Methods for sampling biogas and biomethane for assessment of the gas chemical and physical properties</b>	Presentation at GAS2015	Karine Arrhenius	10/06/2015

<b>Measurement requirements for biogas specifications</b>	Poster at International Gas Analysis Symposium & Exhibition (GAS2015)	Adriaan M.H. van der Veen, Andrew S. Brown, Jianrong Li, Arul Murugan, Martti Heinonen, Frédérique Haloua, Karine Arrhenius	10/06/2015
<b>Development of a reference method for the analysis of total silicon content in biogas</b>	Presentation at GAS2015	Katarina Hafner	10/06/2015
<b>Developments for moisture, particle and biogenic methane content measurements in biogas</b>	Presentation at GAS2015	Hannu Sairanen	10/06/2015
<b>Underpinning green energy use: reference gas standards and methods for the measurement of siloxanes in biogas</b>	Presentation at Royal Society of Chemistry	Lucy Culleton	20/07/2015
<b>EMRP JRP "Biogas": Development of sampling methods for calorimetric measurements of biomethane and biogas</b>	Presentation at 17th International Congress of Metrology (CIM2015)	F. Haloua, K. Arrhenius	21/9/2015
<b>Measurement requirements for biogas specifications</b>	Poster at 17th International Congress of Metrology (CIM2015)	Jianrong Li, Adriaan M.H. van der Veen, Andrew S. Brown, Arul Murugan, Martti Heinonen, Frédérique Haloua, Karine Arrhenius	21/9/2015
<b>Determination of phase equilibria for the mixture (CO<sub>2</sub> + CH<sub>4</sub>)</b>	Poster at Nineteenth Symposium on Thermophysical Properties	A. Gómez-Hernández, F.J. Pérez-Sanz, M.C. Martín, M.A. Villamañán, C.R. Chamorro, J.J. Segovia and T. Fernández-Vicente	21-26/06/2015
<b>Preparation and certification of reference biogas mixtures (Biyogaz Referans Gaz Karışımlarının Hazırlanması ve Sertifikalandırılması)</b>	Presentation at 27th National Chemistry Congress	T. Erinc Engin, Tanil Tarhan	Aug 2015
<b>Development of an accurate, modern, adaptable, isothermal gas calorimeter</b>	European Gas Technology Conference 2015 (EGATEC2015)	Fernando J. Pérez-Sanz, Stefan M. Sarge	25–26.11.2015

<b>Underpinning green energy: Traceable reference standards and methods for the measurement of total silicon in biogas</b>	REGATEC 2016	Lucy Culleton	10-11 May 2016
<b>Experimental determination of the density of different biomethane synthetic mixtures</b>	11th ATPC Yokohama 2016	R. Hernández-Gómez, T. Fernández-Vicente, D. del Campo, M. Vařková, M. Chytil, D. Tuma, J.J. Segovia, and C.R. Chamorro	2.-6.10.2016
<b>Development of analytical and sampling methods to meet the quality requirements for biomethane defined by the upcoming European standards</b>	REGATEC 2016	Karine Arrhenius, Haleh Yaghooby, Arul Murugan, Lucy Culleton, Adrian van der Veen, Jianrong Li, Frédérique Haloua	10-11 May 2016
<b>Development and Improvements for an Isothermal Gas Calorimeter Based on Alexandrov's design</b>	24th international conference on chemical thermodynamics	Fernando J. Pérez-Sanz	21-26 August 2016
<b>Traceable measurement and uncertainty analysis of the calorific value of methane with the French reference calorimeter: application to renewable energy gases</b>	International conference on chemical thermodynamics (ICCT)	Frédérique Haloua, Emilie Foulon, Bruno Hay	July 2014
<b>Speed of sound measurements of methane with water</b>	11th Asian Thermophysical Properties Conference	D. Lozano, M.C. Martín, C.R. Chamorro, D. del Campo and J.J. Segovia	02-06/10/2016
<b>Underpinning green energy: Traceable reference standards and methods for the measurement of total silicon in biogas</b>	European Biogas Association conference 2016	Lucy Culleton	27-28 September 2016
<b>Develop metrological infrastructure for measuring key impurities in biogas</b>	Conference of the European Biogas Association 2016	Jianrong Li, Adriaan M.H. van der Veen, Stefan Persijn	27-29 September 2016
<b>Progress of developing metrological infrastructure for measuring key impurities in biogas</b>	BiogasScience 2016	Jianrong Li, Adriaan M.H. van der Veen, Stefan Persijn	21-24 August 2016

<b>Metrology for Biogas</b>	GAS Analysis 2017	Adriaan M.H. van der Veen et al.	13-15 June 2017
<b>Metrological infrastructure for biogas and biomethane conformity assessment</b>	18th International Metrology Congress	Adriaan M.H. van der Veen et al.	19-21 September 2017
<b>Requerimientos metroológicos para el fomento de la integración del biogás en la red de gas natural</b>	6º Congreso Español de Metrología	T. Fernández-Vicente, D. del Campo, C. Gómez-Gómez, R. Hernández-Gómez, M.A. Villamañán, M.C. Martín, J.J. Segovia, and C.R. Chamorro	June 2017
<b>Speed of sound measurements of biogas</b>	21st European Conference on Thermophysical Properties	D. Lozano-Martín, R. Hernández-Gómez, C. Chamorro, D. del campo and J.J. Segovia	September 2017
<b>Experimental determination of (p, ρ, T) data for three binary mixtures of nitrogen and hydrogen</b>	21st European Conference on Thermophysical Properties	R. Hernández-Gómez, D. Tuma, D. del Campo, D. Lozano-Martín, M. C. Martín, and C.R. Chamorro	September 2017