

# Accepted Manuscript

Visualization of gas-liquid multiphase pseudo-slug flow using Wire-Mesh Sensor

Netaji R. Kesana, Mazdak Parsi, Ronald E. Vieira, Barry Azzopardi, Eckhard Schleicher, Brenton S. McLaury, Siamack A. Shirazi, Uwe Hampel



PII: S1875-5100(17)30340-2

DOI: [10.1016/j.jngse.2017.08.010](https://doi.org/10.1016/j.jngse.2017.08.010)

Reference: JNGSE 2273

To appear in: *Journal of Natural Gas Science and Engineering*

Received Date: 12 May 2017

Revised Date: 11 July 2017

Accepted Date: 14 August 2017

Please cite this article as: Kesana, N.R., Parsi, M., Vieira, R.E., Azzopardi, B., Schleicher, E., McLaury, B.S., Shirazi, S.A., Hampel, U., Visualization of gas-liquid multiphase pseudo-slug flow using Wire-Mesh Sensor, *Journal of Natural Gas Science & Engineering* (2017), doi: 10.1016/j.jngse.2017.08.010.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Visualization of gas-liquid multiphase pseudo-slug flow using Wire-Mesh Sensor

Netaji R. Kesana<sup>a</sup>, Mazdak Parsi<sup>b\*</sup>, Ronald E. Vieira<sup>c</sup>, Barry Azzopardi<sup>d1</sup>, Eckhard Schleicher<sup>e</sup>, Brenton S. McLaury<sup>c</sup>, Siamack A. Shirazi<sup>c</sup>, Uwe Hampel<sup>e</sup>

<sup>a</sup> Process and Fluid Flow Technology Department, Institute for Energy Technology, P. O. Box 40, 2027 Kjeller, Norway

<sup>b</sup> DNV GL USA, Inc. – North America Oil & Gas, Katy, Texas, United States

<sup>c</sup> The University of Tulsa, Erosion/Corrosion Research Center, 800 South Tucker Drive, 74104 Tulsa, Oklahoma, USA

<sup>d</sup> Fluids and Thermal Engineering Research Group, Faculty of Engineering, University of Nottingham, University Park, Nottingham NG7 2RD, United Kingdom

<sup>e</sup> Institute of Fluid Dynamics, Helmholtz-Zentrum Dresden-Rossendorf, Bautzner Landstr. 400, 01328 Dresden, Germany

\* Corresponding author

E-mail address: [Mazdak-Parsi@utulsa.edu](mailto:Mazdak-Parsi@utulsa.edu), [Mazdak.Parsi@dnvgl.com](mailto:Mazdak.Parsi@dnvgl.com)

cell: +1 918 849 5000

**Keywords:** Intermittent multiphase flows, slug flow, pseudo-slug flow, wire-mesh sensor, flow visualization

---

To the memory of Prof. Barry J. Azzopardi: We all are aware of Prof. Azzopardi's science legacy and thought-provoking work. He was a humble and diligent role model who continued to work on different papers including the current work throughout his battle with cancer until the very last day of his life. He is in our thoughts and hearts and will be truly missed. May his soul rest in peace. Amen! (Mazdak Parsi)

Download English Version:

<https://daneshyari.com/en/article/5484963>

Download Persian Version:

<https://daneshyari.com/article/5484963>

[Daneshyari.com](https://daneshyari.com)