

Accepted Manuscript

Title: The effect of electrolyte concentration on counter-current gas-liquid bubble column fluid dynamics: gas holdup, flow regime transition and bubble size distributions

Author: Giorgio Besagni Fabio Inzoli

PII: S0263-8762(16)30489-0
DOI: <http://dx.doi.org/doi:10.1016/j.cherd.2016.12.012>
Reference: CHERD 2520

To appear in:

Received date: 22-6-2016
Revised date: 9-12-2016
Accepted date: 16-12-2016

Please cite this article as: Besagni, Giorgio, Inzoli, Fabio, The effect of electrolyte concentration on counter-current gas-liquid bubble column fluid dynamics: gas holdup, flow regime transition and bubble size distributions. *Chemical Engineering Research and Design* <http://dx.doi.org/10.1016/j.cherd.2016.12.012>

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.



**The effect of electrolyte concentration on counter-current gas-liquid bubble column
fluid dynamics: gas holdup, flow regime transition and bubble size distributions¹**

Giorgio Besagni*, Fabio Inzoli

E-mail: giorgio.besagni@polimi.it, fabio.inzoli@polimi.it

Politecnico di Milano, Department of Energy, Via Lambruschini 4a, 20156, Milano

*Corresponding author: Giorgio Besagni, +39 0223993826; giorgio.besagni@polimi.it; Address: Politecnico di Milano,

Department of Energy, Via Lambruschini 4a, 21056, Milan, Italy

¹ Please notice that (as far as bubble columns are concerned) there is confusion between “*fluid dynamics*” and “*hydrodynamics*”. The former concerns the motion gas and liquids, whereas the latter concerns the motion of liquid phases. Despite the term “*bubble column hydrodynamics*” is widely used, the term “*bubble column fluid dynamics*” should be considered when studying both the gas and liquid phases, and the coupling between the phases.

Download English Version:

<https://daneshyari.com/en/article/4987267>

Download Persian Version:

<https://daneshyari.com/article/4987267>

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