Diogo Elias da Vinha Andrade

Graduated in Industrial Mechanical Engineering at Federal University of Technology - Paraná – Brazil (UTFPR) (2009) and received a master degree at Postgraduate Program in Mechanical and Materials Engineering (PPGEM) in that University (2011). It is a Research Engineer at Research Center for Rheology and Non-Newtonian Fluids (CERNN – cernn.ct.utfpr.edu.br) since 2012 and works focusing on rheology and rheometry of Non-Newtonian fluids. Diogo has knowledge and expertise, gleaned over the years on CERNN, in drilling fluids, waxy crude oils, start-up flow on pipelines and mathematical models. Ph.D. in progress since 2013 in analysis of the wax crystallization in the petroleum area.

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Personal Information

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Formal Education/Degree

2013-2017 Ph. d. in progress at Mechanical Engineer.
Federal University of Technology - Paraná – Brazil (UTFPR)
Theme: The influence of the thermal history on morphology of crystals and mechanical properties of waxy oils
Advisor: Prof. Cezar Otaviano Ribeiro Negrão, Ph.D.
Co-advisor: Prof. Moisés Alves Marcelino Neto, Dr.

2009 - 2011 Master degree in Mechanical Engineer.
Federal University of Technology - Paraná – Brazil (UTFPR)
Year of degree: 2011.
Advisor: Prof. Cezar Otaviano Ribeiro Negrão, Ph.D.

Federal University of Technology - Paraná – Brazil (UTFPR)
Advisor: Prof. Cezar Otaviano Ribeiro Negrão, Ph.D.

Complementary Education

2015 - 2015 Gas Hydrates in Flow Assurance Workshop. (Credit Hours: 16h).
Federal University of Technology - Paraná – Brazil (UTFPR)

2010 - 2010 Neuro Linguistic Programming - NLP (Master). (Credit Hours: 100h).
Instituto Anauê-Teiño, IAT, Brazil.

2010 - 2010 Neuro Linguistic Programming - NLP (Practitioner). (Credit Hours: 100h).
Instituto Anauê-Teiño, IAT, Brazil.

Scientific Journal Reviewer

2016 - Present Journal: Fuel (Guildford) - ISSN: 0016-2361

Scientific and Technological Production

Bibliographical Production

Articles in Scientific Journals


Complete works published in conferences proceedings


Expanded Summary published in conferences proceedings


Summary published in conferences proceedings


Oral Presentation in Conferences

1. Presentation “Determination of the wax appearance temperature and the influence of the wax crystal morphology on the mechanical behavior of a model waxy-oil” at the VII Brazilian Conference on Rheology - BCR, 2015 – Curitiba/PR Brazil.


3. Presentation “The influence of the initial cooling condition on the flow curve of waxy crude oil” at the 15th Brazilian Congress of Thermal Sciences and Engineering – ENCT 2014- Belém/PA - Brazil.

4. Presentation “Proposal of curve fitting for shear stress during gel breaking of thixotropic drilling fluids” at the 22nd International Congress of Mechanical Engineering – COBEM 2013- Ribeirão Preto/SP - Brazil.


6. Presentation “A semi-empirical model for the transient simulation of reciprocating compressors for household refrigeration applications” at the XV CREEM 2013 Curitiba/PR – Brazil.

Organization of Events


Awards and Prizes

2015 Co-advisor: 2nd Prize Student Paper Contest, SPE 2015 - Sampling Methodology for an Oil-Based Drilling Fluid in Rheometric Tests, South American/Caribbean Region - Macae Section, Student Rubens Rosario Fernandes - Conference of The Society of Petroleum Engineers - Undergraduate Level

2015 Co-advisor: 2nd Prize Student Paper Contest, ENAHPE 2015 - Prediction of the time-dependent static yield stress for an oil based drilling fluid under rest through the storage modulus evolution over the aging time, Student Rubens Rosario Fernandes - VI National Meeting of Drilling Hydraulics of Oil Wells - Undergraduate Level

2015 Co-advisor: 3rd Prize Student Paper Contest, ENAHPE 2015 - Experimental investigation of critical strain for viscoplastic materials with different geometries and rheometers, Student Guilherme Arnt Serro Balvedi - VI National Meeting of Drilling Hydraulics of Oil Wells - Undergraduate Level


2013 Co-advisor: 1st Prize in the Student Poster Contest, ENAHPE 2013 - Curve Fitting for Gel Breaking of Drilling Fluids, Student Ana Cristina B. da Cruz - V National Meeting of Drilling Hydraulics of Oil Wells - Undergraduate Level

2013 Co-advisor: 3rd Prize Student Paper Contest, ENAHPE 2013 - Comparison of Different Thixotropy Models for Gel Breaking of Drilling Fluids, Student Tainan M. G. dos Santos - V National Meeting of Drilling Hydraulics of Oil Wells - Undergraduate Level