

# **FLUID DRAINAGE IN THE NIGER DELTA REGION OF NIGERIA: A MODELLING APPROACH**

**NGIANGIA ALALIBO<sup>1</sup> & AMADI OKECHUKWU<sup>2</sup>**

<sup>1</sup>Department of Physics and Department of Mathematics, Pout Harcourt, Nigeria

<sup>2</sup>Ignatius Ajuru University of Education, Rumuolumeni, Pout Harcourt, Nigeria

## **ABSTRACT**

A mathematical model for analysis of fluid drainage in the Niger Delta region of Nigeria is made. An experimental validation of the model was also carried out and comparison of the mathematical model and experiment showed that more drainage is needed to reduce the time of run off of fluid (water) from the surface of soil in some location in the region.

**KEYWORDS:** Fluid, Niger Delta, Modeling, Differential Equation