**Ante, Magdalene Anthony**

I am currently pursuing my Ph.D. in Petroleum Engineering at the University of Southern California; my work is on the mechanics of hydraulic fracturing, simulating deep water conditions. My focus is on the coupled interactions between flow and mechanics to study fracture propagation/closure and the attendant effects of production.

**Previous Education:**

B. Tech, Petroleum Engineering, Rivers State University of Science and Technology, Nigeria.

M.S., Petroleum Engineering, University of Southern California.

**Areas of Technical Interest**

Hydraulic Fracturing, Mature Fields, Reservoir Geomechanics, Improved and Enhanced Oil Recovery, Deep water.

**Dissertation Topic: Mechanics of Deep Water Hydraulic Fracturing**

Unlike onshore fracking that is currently used as a primary means to achieve production in shale gas, offshore fracking has been used mainly to improve recovery in existing field production. Hydraulic fracturing in a deep water environment requires understanding the key elements that are responsible for a successful operation, especially with the significantly higher cost of offshore environments. Other important concerns include over-pressured formations, high temperature environments and near-wellbore unconsolidated zones.

A key part of my work is to incorporate geological/depositional setting information into my model in order to have a more holistic picture of the geomechanic interactions between the porous medium and the fluid for pre and post-stimulation job scenarios.

**Contact Information**

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