Research LAUNCHER Program

About You

First Name: NDUBUISI Last name: UKPABI

Company/University: UNIVERSITY OF PORT HARCOURT

Check which apply to you: ☑ Student ☐ Non Student ☐ Independent Researcher ☐ Professor ☐ Corporate Research ☐ Other

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Short Bio: (250 words or less)

I have bachelor of science in geology, master of science in geology, biostratigraphy option and currently a PhD student. my first research work which was published in the Internet was carried out on structural evolution, magmatism and effects on hydrocarbon maturation in the Lower Benue Trough, Nigeria. (http://www.akamaiuniversity.us/PJST.htm). My second publication "Belskipollis elegans-enigmatic pollen type: stratigraphic relationship with the absence of faunal and floral productivity in Middle Miocene sediments, Niger Delta was presented in 5th edition of Palynological association of Nigeria (PAN). I have training in the use of many tools such as Petrel, ArcGIS, StrataBUGS and all the Microsoft office tools. I used ArcGIS to map middle Miocene continental sands to the slope fans where there were reworked in the Pliocene which gave a good reservoir.

Project Description

1. Name of project BUILDING DYNAMIC MODELS FOR THE INTERPRETATION OF PALYNOLOGICAL DATA IN TURBIDITE FAN DEPOSITS.

2. Brief synopsis/areas of geosciences or engineering (50-75 words)

The rhythmic patterns in depositional models displayed by continental and marine species are key to understanding the depositional sequences of the subsurface. Application of spatial array of facies (continental and marine) distributions in time and space may significantly show how laterally displayed the geometry of any sedimentary facies are, this will guide the determination of the reservoir architecture and configuration not only in terms of sedimentological characteristics but also in terms of unique sequences separated from sequences similar in sedimentological characteristics (correlation based on bio-markers). Visual display of these rhythmical model or simply put sand chasing/tracking in maps using ArcGIS will solve most subsurface geological problems as subsurface geological attributes will be displayed in map view.

3. Bullet list of 5-7 main outcomes/goals.

Determine depths at which regional sealing shale's will be met by wells using the well geographical coordinates. Locate reworked sands down the basin using the ages of the palynomorphs. Spatially display the distribution of the sand packages based on their age and distributions. correlation based on unique sand packages separated in age. Reconstruction of the palaeoenvironment of deposition and stratigraphic frame work of the basin.

4. In two or three sentences, describe why your research is important. Please mention who will benefit from your work.

Visual display of the rhythmical model in maps using ArcGIS will solve most subsurface geological problems e.g drilling across pressure regimes. this will therefore help drilling engineers during well planning. correlation and determination of stratigraphic frame work will help the Development, Exploration and Reservoir Engineer in delineating reservoir architecture.

5. Timeline with milestones (12 month/18 month) palynological and paleontological sample preparation will take about 6 months, sedimentological and log interpretation will take about 3 months, application of ArcGIS and spatial data array will take about 3 months while final map productions and models will take about 4 months

6. Funding amount needed to achieve first basic goals within 12 months. Please provide a brief summary overview of your budget. List costs of 5-10 main items. Sample preparations will cost about 15,000.00 US Dollars. Sample analysis will cost about 20,000.00 US Dollars, Software packages will cost 30,000.00 US Dollars.

7. In the process of gaining background knowledge in the field of your proposed research, who did you find to be the top two or three researchers? What are the main concepts that are being explored? Please briefly describe.
PROFESSOR TAYLOR, DAVID MARK: TROPICAL ENVIRONMENTAL CHANGES
PROFESSOR BILL McCAFFREY: COMBINED APPROACH, USING THEORETICAL, COMPUTATIONAL AND EXPERIMENTAL MODELLING TOGETHER TO CHARACTERISE SEDIMENTARY ARCHITECTURE

8. Please provide a photo of yourself and a photo related to your proposed project. It will be very helpful in publicizing your project and potentially securing funding.

9. Who will benefit? Academia and Oil & Gas Industry

AAPG Research LAUNCHER supporters receive

The opportunity to work directly with you and receive reports, information, and findings, depending on the level of support.

The Deal

The researcher agrees to:

- Develop a brief public presentation on the research to be made available to AAPG
- Share an annotated bibliography and review of relevant published articles
- Present research findings on project at an AAPG Forum, GTW, or Research Symposium
- Write a detailed report on the results of your research to be made available to LAUNCHER supporters
- Write a extended abstract on the results of your research to be made available to AAPG

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Thank you for submitting your research proposal to the AAPG Research LAUNCHER Program. Your proposal will be reviewed and upon acceptance you will be contacted by AAPG Education/Research. If your proposal is accepted, we will publicize your proposal and encourage funders to contact you directly. AAPG does not guarantee funds nor have any connection with the success or failure of the endeavor. The goal is to support scientific research in the petroleum geosciences and engineering and launch the next generation of geological advances.

UKPABI, NDUBUISI	21/05/2014		
Research Candidate (print)	Date	AAPG Education/Research (print)	Date
	21/05/2014		
Research Candidate (sign)	Date	AAPG Education/Research (sign)	Date

AAPG Education/Research
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