



BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.

Follow this format for each person. DO NOT EXCEED FIVE PAGES.

NAME: Gbolahan Lasaki

eRA COMMONS USER NAME (credential, e.g., agency login): gbola@comcast.net

POSITION TITLE:

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Ahmadu Bello University, Zaria, Nigeria	B.Eng.	1971	Mechanical Engineering
Imperial College Science & Technology, Royal School of Mines, London, United Kingdom	DIC & M.Sc.	1975	Petroleum Engineering
Colorado School of Mines, Golden Colorado USA	PhD	1980	Petroleum Engineering & Mineral Economics

NOTE: The Biographical Sketch may not exceed five pages. Follow the formats and instructions below.

A. Personal Statement

Gbolahan Lasaki, PhD is the owner and President/CEO of Fountainhead Enterprises, Inc. (FE), a Colorado corporation established in 1985 and currently located in Aurora, Colorado. In the early years and until recently, the company operated as an oil and gas consulting company with activities and studies in various parts of the world. As an African-American (AA) small business owner, an engineer and a professor, Dr. Lasaki has always been a problem solver, identifying problems and using technology enabled and guided by experience to find solutions.

Dr Lasaki is an adjunct professor at Creighton University, teaching pre dental post baccalaureate students' perceptual ability (PAT) (using his engineering skills and abilities) one of the required courses for the Dental Admission Twest (DAT). The Perceptual Ability Test (PAT) is the second section of the DAT and for many students one of the most challenging. The DAT PAT tests spatial visualization skills, including the ability to interpret two-dimensional (2D) representations of three-dimensional (3D) objects. These DAT Perceptual Ability skills are very useful to dentists as they construct mental images of teeth from X-rays, deal with casts and fillings, and work with complicated 2D and 3D objects.

B. Positions and Honors

Positions and Employment

1971-1972	Mechanical Engineer, Philip Morris (Nigeria) Ltd.
1972-1976	Petroleum Engineer, Nigerian National Oil Corporation (NNPC)
1976-1977	Lecturer and Research Fellow, University of Ibadan, Nigeria
1977-1978	Graduate Student and Teaching Assistant, Colorado School of Mines, Petroleum Engineering Department
1978-1981	Senior Petroleum Engineer, Energy Consulting Associates (ECA), Inc.
1981-1985	Consultant, Scientific Software-Intercomp, Inc./Intercomp Petroleum Resources & Engineering Company
1985-Present	Founder and Principal Consultant, Fountainhead Enterprises Inc.

C. Contributions to Science

As Founder and Principal Consultant of Fountainhead Enterprises, I have made a great contribution to science particularly in developing the technology and economics that have led to the growth of the industry by developing the reserves and commercializing hydrocarbon findings in various organizations, in different countries:

- **Romania Agency for Mineral Resources.** As Technical Consultant, I was able to form and assist in the creation of joint ventures with foreign partners. I had worked on US Trade and Development Agency to identify investment opportunities in Romania Exploration and Production, Refining, Transportation, Retail, Oil-field Services and Oil-field Equipment manufacturing. I evaluated the Ukrainian-Romanian gas transmission systems, LPG/LNG project, telecommunication and instrumentation equipment for command and control of gas transportation grid and polyethylene pipeline projects.
- **World Bank.** I served as Consultant for the Romanian Petroleum Sector Rehabilitation Loan Program. The projects include policy development, restructuring, establishment of sector regulatory framework including responsible regulatory agency. Responsible for pre-appraisal, program development, evaluation, implementation and supervision of oil and gas investments for production enhancement.
- **Public Service Company of Colorado.** Here, I studied and created a model for the Roundup Storage Field in Morgan County, Colorado using OMEGA reservoir simulator. I also worked on the reservoir description of the Public Service owned Leyden gas storage field in Colorado.
- **Oil and Gas Development Corporation (OGDC), Islamabad, Pakistan.** I was retained by the World Bank as the in-house consultant to this company for over three-year period. I developed and supervised the drilling and workover programs, the well testing and the development programs of the Tando Alam, Dhakni and Dhodak oil and gas producing fields.
- **Oil and Gas Development Corporation (OGDC), Punjab Province, Pakistan.** I was responsible for the compositional simulation study of the Dhodak field, utilizing ECLIPSE 300, PVT Grid, VFD and ELOG Programs. I analyzed well logs and production tests. History matched PVT laboratory data using EOS models. Constructed 3-D compositional model to match production tests and evaluated development options, including depletion and recycling of the gas condensate in a multi-faulted sandstone reservoir.
- **Pertamina, South Sumatra, Indonesia.** I was responsible for the compositional simulation study of the Lembak field in South Sumatra utilizing the VIP-COMP compositional simulation model to study the gas condensate reservoir. The study involved fluid analyses and the development of suitable relative permeability correlation. Worked with Pertamina staff to define structural boundaries and establish reservoir description. History matched laboratory

fluid tests using equation of state PVT package. Constructed compositional reservoir simulation model and evaluated development options.

- **Asian Development Bank, Sindh Province, Pakistan.** I was responsible for the reserve and waterflood evaluation of the Tando Alam field, a faulted sandstone black-oil reservoir in Sindh Province. I evaluated and analyzed field data, estimated reserves, recovery potentials and waterflood potential and feasibility. Prepared drilling plans and analyzed project risks, established reserve probabilities using Monte Carlo simulation. Developed the decline analysis and waterflood software models used for this project.
- **Oil and Gas Development Corporation, Baluchistan Province, Pakistan.** I worked on the gas field of Loti field in Baluchistan Province. As a subcontractor to H. K. van Poolen & Associates, Inc., I evaluated rock properties and developed reservoir descriptions, simulated and predicted reservoir performance using van Poolens's OMEGA simulator.
- **American Energy Resources, Inc., San Diego California.** I was responsible for the simulation enhanced recovery study of the Rozel field in Utah using ECLIPSE 100 with the dual porosity option. I studied enhanced recovery behavior under induced fractures and fluid viscosity reduction for the heavy oil reservoir.
- **Kelt Energy Corporation, Denver, Colorado.** I evaluated and estimated black-oil reserves in the Gamba formation in Sette Cama Marin field, offshore Gabon. I worked with geophysicist to refine geological map and seismic interpretation, analyzed logs and developed isopach and iso-vol maps. I assigned probability values to reservoir parameters, generated reserves and estimated in-place oil with Monte Carlo simulation.

As Consultant to Scientific Software-Intercomp, Inc./Intercomp Petroleum Resources & Engineering Company, I worked on various domestic and international petroleum projects, using black-oil and compositional simulators as well as thermal model simulator. Under this organization, I was able to work with the following companies:

- **US Department of Energy, Laramie Energy Technology Center, Wyoming.** I was responsible for the Tar Sand Recovery study in Uintah County, Utah. I surveyed literature on emerging technology and using 3-D multi-phase, multi-component thermal model, designed field tests for a combined combustions fire-flood and steam injection. The project involved setting up the thermal model, history matching laboratory combustion tube experiment, model fine-tuning and studying various recovery options for optimized recovery by air and steam injection.
- **Gary Energy Corporation, Denver, Colorado.** I was responsible for the Bell Creek field waterflood study using black-oil model.
- **Petroliam Nasional Berhad, Petronas, Malaysia.** I conducted black-oil simulation study of West Lutong, Beronia and Baram fields.
- **Qatar General Petroleum Company (QGPC), Qatar.** I studied the Id El Shargi Arab IV reservoir using a black-oil simulator.
- **Western Gas Supply Company, a Division of Public Service of Colorado.** I studied the Roundup Gas Storage field.
- **Louisiana Land & Exploration Company, Wyoming.** I analyzed volatile oil PVT of Bates Creek Field.
- **Diamond Shamrock Oil Company, Denver, Colorado.** I studied PVT of the volatile oil in Roosevelt Beaver Creek Reservoir.
- **Atlantic Energy Corporation, Calgary, Canada and Energetic, Inc., Denver, Colorado.** I estimated reserve of various oil and gas fields.

As Senior Petroleum Engineer in Energy Consulting Associates (ECA), Inc., I was responsible for the computer software development as well as studies of different oil and gas reservoirs, including volatile oil, gas condensate, tight sand gas and heavy oil. I analyzed well logs, transient pressure and well tests. Also responsible for other projects involving waterflood, gas-injection and enhanced oil recovery. I designed drilling and casing programs for conventional wells and for wells under enhanced thermal steam and combustion recovery programs. I was also responsible for studying the enhanced oil recovery by steam injection in the North Kern Front Field, Kern County, California for Petro-Lewis Oil Company in Denver, Colorado. I developed a Predictive Steam Model used for the study. The study also involved fluid property analysis for heavy oil, including viscosity-temperature correlation, well performance study, estimate of production performance under steam soaking and under steam flooding and economic evaluation of the project. Prior to all these engagements, I was deeply engrossed in teaching, lecturing and researching both at Colorado School of Mines and the University of Ibadan, Nigeria. At the early part of my career, I started out as a Petroleum Engineer in Nigerian National Oil Corporation, working on various assignments with French Petroleum Institute in Paris and Sonatrach, Algeria, and with Shell-BP Petroleum Development Company in Nigeria. However, I began as a Mechanical Engineer at Philip Morris (Nigeria), Ltd., responsible for the maintenance of factory equipment and machines.

D. Research Support

None