

ON
SHORE
NEAR
SHORE
OFF
SHORE
SERVICE WITH AN EDGE

DRILLING & WELL MAINTENANCE | ENGINEERING | ENVIRONMENTAL MANAGEMENT

PROJECT MANAGEMENT | WIRELINE | INSPECTION | TRADING

WWW.CRANFIELDENERGY.COM

Your solution is Cranfield Energy

Cranfield Energy is an international oil and gas service provider established to offer world best-in-class; cost efficient and safe energy solutions in the areas of Drilling and Well Maintenance, Engineering, Environmental Management, Project Management, Inspection Services, Trading, and Wireline Services.

Cranfield Energy has diverse resources to provide the most advanced and efficient technology to the oil and gas industry. We provide the road map to ensure that oil and gas operators have the most advanced equipment and management possible.

The most important feature and goal of Cranfield Energy is to provide a new mechanism for the transfer of technology and management to areas where they are needed around the world. Cranfield Energy will also provide within the road map, the methods by which Africans will be a major part of the technology transfer program that will boost indigenous capacity for the efficient performance of drilling

OUR MISSION

To outperform the diverse expectations of our customers, employees and shareholders and be socially involved in our operating environment by offering problem solving services using cutting edge and environmental friendly technologies and systems

OUR VISION

To be the preferred international energy solution provider, providing innovative local energy solutions.

OUR SERVICES

- ✘ DRILLING & WELL MAINTENANCE.
- ✘ ENGINEERING.
- ✘ ENVIRONMENTAL MANAGEMENT.
- ✘ PROJECT MANAGEMENT.
- ✘ WIRELINE SERVICES.
- ✘ INSPECTION SERVICES.
- ✘ TRADING



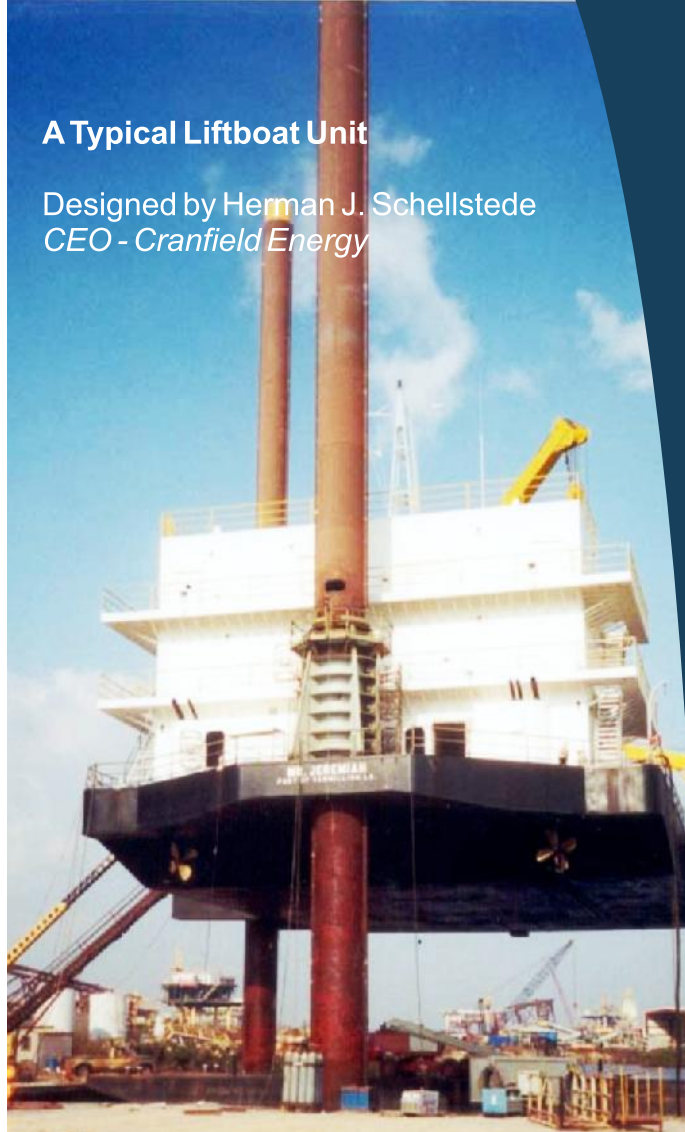
FALCON RIG 52 -
*a Posted Drilling Barge designed and built by Herman J. Schellstede
 CEO - Cranfield Energy*

About US

Cranfield Energy was established by Herman J. Schellstede (founding owner of Herman J. Schellstede and Associates Inc., USA) and his business partners in Africa and North America to offer world best-in-class; cost efficient and safe energy solutions in the areas of Drilling & Well maintenance, Engineering, Environmental management, Project management, Wireline services, Inspection services & Trading. The most important feature and goal of **Cranfield Energy** is to provide a new mechanism for the transfer of technology and management to areas where they are needed around the world. **Cranfield Energy** will also provide within the road map, the method by which Africans will be a major part of the technology transfer program that will boost indigenous capacity for the efficient performance of drilling and production activities.

A Typical Liftboat Unit

Designed by Herman J. Schellstede
CEO - Cranfield Energy



PARKER RIG 75 -

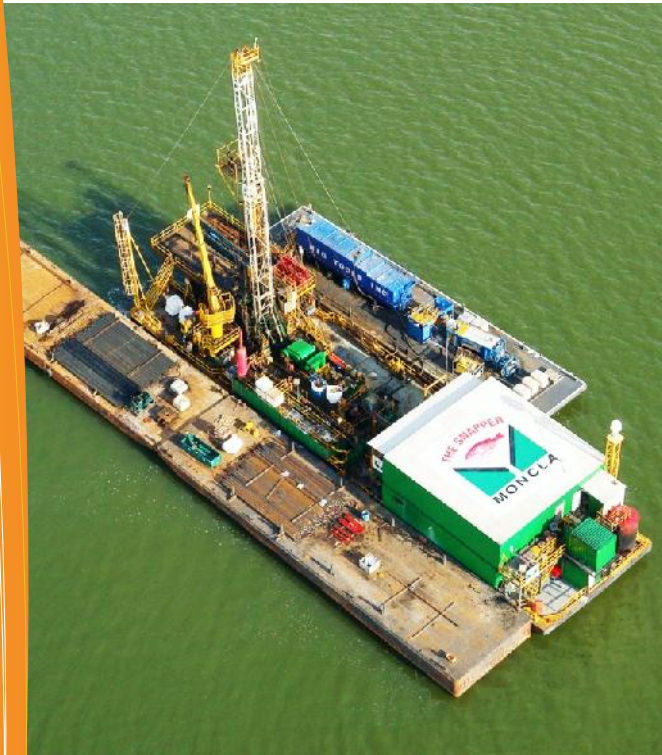
designed and built by Herman J. Schellstede - Cranfield Energy CEO, operates in various West African drilling locations.



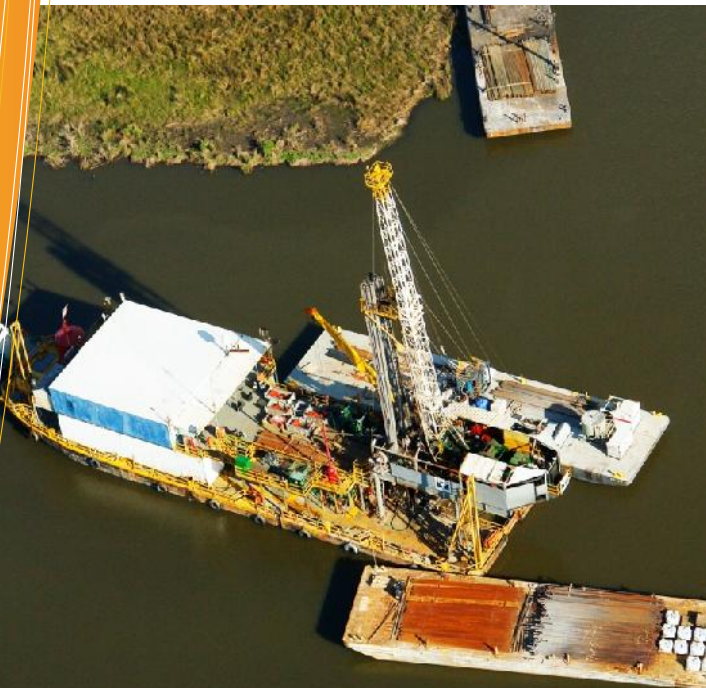
OUR
PROFILE

Drilling and Well Maintenance

OUR SERVICES



WITH OUR
ADVANCED
DRILLING
SOLUTIONS,
WE ARE POISED
FOR EXCELLENCE



Onshore and Offshore Drilling:

Cranfield Energy, in partnership with **Moncla Companies**, provides offshore and onshore drilling services for clients. Drilling units available for our operations include light to heavy-duty land drilling rigs and offshore drilling units of up to 350ft of water depth. The heavy-duty land and offshore drilling units with installed BOP capacity of between 10,000 psi to 15,000 psi have the capability to drill deep, high-temperature, high-pressure formations. Horse Power capacity of these units ranges from 1000 HP, 1500 HP, 2000 HP to 3000 HP.

Radial and Lateral Drilling:

Cranfield Energy is under an agreement with **Schellstede LLC, USA** to offer its Radial Drilling System and technology to petroleum exploration and production companies in Africa and North America. Radial drilling is a well enhancement program that provides a method to efficiently extract oil and gas from a well that cannot be produced through the conventional drilling methods. Geologists in the United States have proved that after well stops producing by the normal extraction processes, about 75% of the petroleum reserve in the well is usually abandoned due to deficiencies in the conventional extraction processes. The **Schellstede Well Enhancement Program (SWEP)** is designed to produce the 'unrecoverable' or abandoned oil and gas wells.

Workover Platforms:

Cranfield Energy provides a range of drilling equipment and units including Light Duty Drilling Rigs, Trailer Mounted Workover Units, Snubbing Unit and Carrier Rig to meet client's well maintenance/repairs services to improve and enhance well production.

Engineering

Cranfield Energy in strategic alliance with **Herman J. Schellstede & Associates**, provides innovative engineering solutions for the oil and gas industry ranging from the design and construction of onshore and offshore drilling units, installation and management of onshore and offshore oil platforms, pipeline coating and fabrication, inspection and quality assurance of drilling rigs/barges.

We have complete computer capability in these areas and can simulate with complete accuracy stresses caused by load factors, wind and water action.

This capability is being recognized as a valuable investigative tool in the analysis of rig failure, as well as in the development of preventive action to eliminate such failure in existing rigs.

We have available to our clients several drilling vessel packages, including swamp barges, posted barge rigs, submersible rigs, and semi-submersible units.



- a swamp drilling barge under construction; Project managed by Cranfield Energy.

OUR SERVICES

Environmental Management

Cranfield Energy in partnership with **Golder Associates Africa** has a long standing history in environmental management and delivers quality solutions that set the foundations for successful and sustainable development projects.

Our specialised scientists, engineers, health and safety professionals, regulatory expertise and public liaisons provide you with the depth and breadth of skills needed for success.

A closer look at our environmental management and compliance services include:

Atmospheric Services: Air quality science and engineering services including environmental impact assessments, modelling, meteorology and more.

Environment, Health & Safety & Industrial Hygiene: Certified safety professionals, scientists and industry specialists deliver environment, health, safety and industrial hygiene services.

Human Health & Toxicology: Human health and ecological toxicologists, public health specialists, geochemists, hydro-geologists and environmental engineers assess and manage toxicology, chemical and contaminant risk issues

Permitting: Environmental baseline studies, site investigations, impact assessments, planning, permitting and stakeholder engagement services for new and existing sites, facilities and land development.

Others are: (1) Energy, Carbon & Climate; (2) Sustainability; (3) Contaminant Site Investigation & Clean Up



Golder's environmentalist collecting data to determine environmental risk

Project Management

Cranfield Energy provides the oil and gas industry with major capital project management solutions, ranging from operations and management of drilling rigs, oil and gas infrastructure developments, feasibility studies, engineering design, facility construction, upgrade and modification of drilling units.

Cranfield Energy possesses highly trained and experienced personnel that possess the skill, ability and knowledge



required to manage and supervise different phases of project delivery, including cost analysis, design and/or design review, engineering, automated computer aided drafting, PERT/Gantt Charts, WBS, RBS, selection of tools and equipment, plant and/or site layout, manning charts, organizational models, production and production control programs, inspection and/or full quality control programs, production supervision, purchasing, equipment evaluation, and decommissioning and project close out process.



**Parker Rig 75 -
- a drilling barge on its completion.**

Wireline and Slickline Services

Cranfield Energy in partnership with **Moncla Companies** in the USA, provides adequate wireline and slickline services. We provide all your cased hole E-line services on land or on water. Everything from Drillpipe Pipe Recovery, High Pressure Thru Tubing Plugbacks, Plug and Perf horizontal Completions and P&A Wireline support.

We strive to be the most efficient, cost effective E-line solutions provider readily available

Our Services include:

Pipe Recovery: Jet cutters; Radial Cutting Torches; Stuck Pipe Log; Severing Tools; Free point Tools 1 1/16" - 1 5/8"; Back Off; Chemical Cutters 1" - 5 5/8

Mechanical Services: Bridge Plugs; Packers; Junk Baskets; Gauge Rings; Thru Tubing Plugs

Logging: Gamma Ray; Gamma Neutron; Noise / Temp.; 1 1/16 - 3 1/8 Segmented Bond Tools; Pressure While Perforating; Fluid Density

Perforating Services: Retrievable Tubing Guns; Strip Guns; Hollow Steel Carriers; Gamma Guns; Dual Fire, Gun Releases

Slickline Services: Mechanical Intervention; Memory Production Logging; Slickline Perforating; Memory Formation Evaluation; Heavy Duty Fishing; Cement and Pipe Evaluation.

OUR SERVICES



Inspection Services

Cranfield Energy offers appraisals, condition survey and inspection services for oil and gas operations and equipment. Inspection services include NDT and Stress Analysis, Magnetic Particle Testing (MPI) in addition to the general review of design drawings, pipeline inspection, compressor stations, rig fabrication yards, offshore rigs, and plant sites.

We provide clients with assistance in establishing specifications and procedures, certifying welders, conducting non-destructive testing of weldments, visual inspection, and gauging of paint thickness.



Inspection Project -
- Cranfield Energy conducting the inspection and condition survey of a drilling barge.

OUR SERVICES

Trading

- Procurement & Distribution

Cranfield Energy is one of the leaders in procuring and supplying variety of specialized tools, equipment and materials required for oil and gas exploration and production operations. We have appropriate facilities to provide services that suits your requirements.

Cranfield Energy is also the exclusive distributor of innovative chemicals and equipment such as Lubri-Lab products. We possess the exclusive license to market and distribute Lubri-Lab products in Nigeria and West-Africa at large.



OUR SERVICES

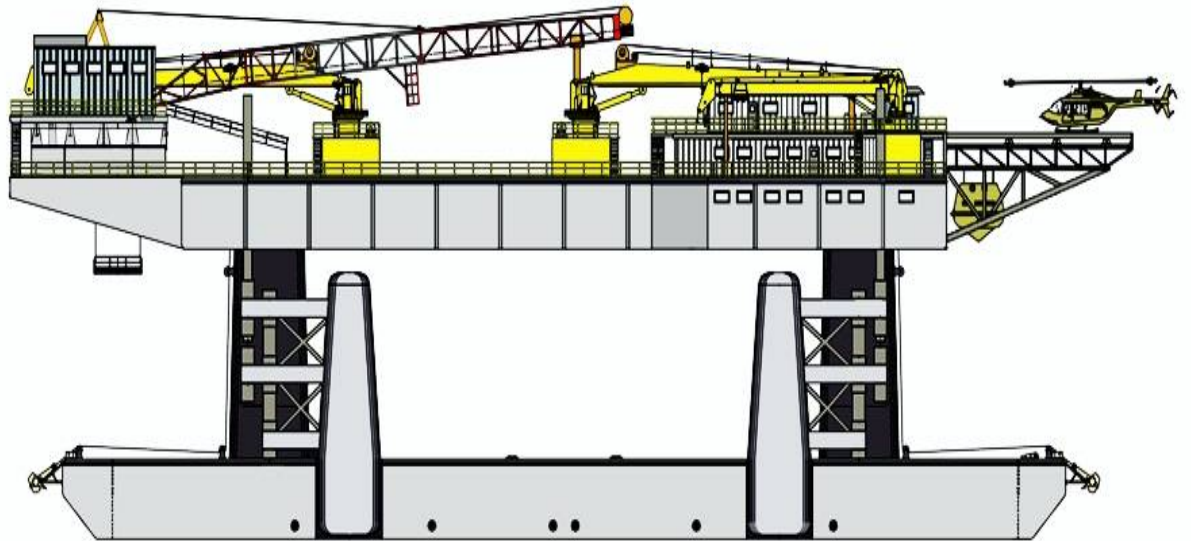
Wind Energy Systems

Cranfield Energy is licensed by **Schellstede LLC, USA** to operate and develop wind power projects in the coastlines of West Africa. Discussions are ongoing with Schellstede LLC to provide Cranfield with the ability to also sub-license other organizations in the region that are interested in taking the vast opportunity offered by wind technology to contribute to solving the power challenges that confronts some of the West African Countries and provide a more cost efficient, environmentally friendly alternative to the current power systems.



OUR SERVICES

Schellstede Ultimate Drilling Barge



Cranfield Energy and **Herman J. Schellstede & Associates, Inc.** has unveiled a new drilling vessel design that will accommodate shallow continental shelf zones and inland rivers, bays and sounds. This new drilling vessel is called the Schellstede Ultimate Drilling Barge (SUDB).

The SUDB is a 4,500-hp vessel with a 15,000-psi well control system, a 12-hole well pattern, and a drilling capacity of 35,000 ft. The SUDB considers one vessel to accommodate drilling operations from 8ft through 60ft water depths, helping to cut production costs by up to half.

The vessel is also novel in that the construction materials are of a composite design which lowers the vessel weight and eliminates corrosion. The invention provides a design that employs stabilizing tanks that can be stored for shallow water drilling and extended to provide ample stability for towing and offshore operations. In offshore towing or operation, the tanks will be extended.

Also, the SUDB allows for great flexibility in operations. It provides a new approach to an age-old problem, and can be employed in various environmental conditions, i.e., temperate to ice conditions. The vessel allows sea keeping operations in different bottom conditions, i.e., hard sand bottom to very soft conditions.

The vessel is designed to accommodate the most rigid environmental codes. The SUDB has “zero” discharge and provides a new guidepost considering shallow water drilling vessels.

"The SUDB is the beginning of a new era in technology for marine drilling and completion," Schellstedesaid.

HSE Management System

Cranfield Energy is committed to continuous service improvement, tailored to our clients' needs; we combine the latest technologies and equipment with our well-trained crews. To consolidate our position as a leading Oil & Gas service provider, we invest a lot of our time and resources in our quality procedures and HSE management.

Cranfield Energy identifies, formulates and implements formidable Health, Safety and Environmental Systems, which are incorporated into the company's plans to create safe, healthy and environmentally friendly operations in all the countries of the world where it operates.



The Company management provides a strong, visible leadership and commitment to HSE systems and policies, which are critical to placing the right, emphasizes and focus the attention of Cranfield's employees to the uncompromising need to operate in a safe and healthy environment.

The ultimate responsibility for HSE management lies with the Chief Executive of each of Cranfield's companies and they are supported with functional and competent HSE managers. To further emphasize the overriding importance that Cranfield places on Health, Safety and Environment, focal points are setup in all Cranfield's companies from the level of the Chief Operating officers downwards which serves the purpose of ensuring that HSE polices and strategies are effectively implemented. These HSE focal points do not reduce the responsibilities of the

management but serve to re-enforce the existing process. Team leaders and managers in the teams provide management with inputs, ensuring HSE targets are met and where applicable implement consequence management.

MANAGEMENT OF CHANGE CONTROL

In order to remain competitive, meet the need of an ever-changing, aggressive workplace and business environment, Cranfield's robust HSE systems are supported by a flexible organizational structure which makes response to changes in legislation and other HSE demands very swift. Changes in HSE requirements are communicated as procedures to guarantee effective management and control of such changes to avoid critical consequence.

Corporate Governance



PROJECT COMMITTEE

Project management services form a significant proportion of Cranfield's operations. To ensure that all projects undertaken by **Cranfield Energy** are delivered within budget (time and cost); the board ensures that the company maintains a project committee to act as overall project managers. The membership of this committee includes representatives of the major investors / stakeholders or the project owners of each major project.

Cranfield Energy has an appropriate corporate structure, which is designed to regulate the affairs of the company. The structure helps the company to drive its business in a professional manner; institute and enforces controls, procedures and systems.

This has contributed significantly to ensuring that Cranfield's business and projects run as efficient as possible, delivering value adding solutions to our customers. The company has a well-balanced Board of Directors with requisite skills, competencies and experience in all the key areas of the company's business. To ensure that the company continues to operate with appropriate corporate governance in view, the company has put in place following structures/committees.

MANAGEMENT COMMITTEE

This committee reviews the day - to - day operations of the company with a view to making and implementing recommendations that will optimize operations.

EXCO / FINANCE COMMITTEE

The Exco / Finance committee has the responsibility for reviewing the company's operations and operating results and making recommendations to the Board. The committee ensures optimal allocation of financial resources and performs other duties or tasks as are given to it by the Board from time to time.



BOARD OF DIRECTORS

Cranfield Energy is piloted by a four member Board of Directors that is responsible for the overall running of Cranfield Group of companies. Members of the board are technically sound and vastly experienced, most of whom are professionals with considerable experience in design, building, operation and management of drilling and work-over units in the United States, Africa, North America and Asia.

The board is also responsible for setting the overall strategic direction for the company. The board has been highly instrumental in establishing the company's mission, strategic goals and the setting up of operating and financial policies.

MANAGEMENT TEAM

The central executive management team of **Cranfield Energy** is led by its directors who oversee the management and operations of Cranfield companies in Nigeria, Ghana, Canada and the United States of America.

The Executive team is led by Herman J. Schellstede who is the President and Chief Executive Officer. He is assisted by John Esiegbuya (Vice President Africa and Global Head of Finance), Lonnie Barkaskas (Vice President USA/ North America and Global Head of operation) and Gretchen Schellstede, the Corporate Affairs Executive.



Herman J. Schellstede

PRESIDENT AND CHIEF EXECUTIVE OFFICER



Herman is the founder and Chief Operating Officer of Herman J. Schellstede & Associates Inc., an engineering, development, construction and project management firm for the past 44 years. Under his direction, the company has engaged in a wide variety of projects, ranging from industrial engineering assignments to the design, testing and production of specialized harvesting equipment for the agriculture business industry.

Herman J. Schellstede & Associates Inc focus is in service areas of oil and gas production, with major world-class innovations achieved in the offshore drilling, supply, and service sectors.

Herman J. Schellstede & Associate Inc is structured to support Herman’s personal involvement as a designer and innovator of new processes. In this respect, he was able to support both contract and in-house design and engineering programs.

Herman J. Schellstede & Associates, Inc., has designed, built and managed several oil production platforms, lift boats, and various oil drilling barges including the Parker 75, Hercules 58 just to mention two among very many and provided other offshore and land-based oil and gas construction services throughout the world . He founded and operated the Schellstede LLC lateral drilling company in the United States. Herman is a co-founder of the Wind Energy LLC and Coastal Point Energy LLC. The Wind Energy Company is in the process of developing offshore wind farm in the Gulf of Mexico, USA.

Herman J. Schellstede and Associates, Inc. is member of the American Petroleum Institute (API) and has assisted in the development of pipe testing systems, hard band industries, tool joint manufacturing, solids control equipment, pipe coatings, manufacturing plants, offshore environmental systems, ultrasonic welding systems and a series of patented marine drilling systems and vessels and radial / lateral drilling systems.

Herman, who holds sixty-seven (67) US patents, is a registered Naval Architect and Marine engineer. He is a Mechanical engineering graduate of the South-western Louisiana University and possesses a degree of Science of Engineering from the College of St. Joseph in the United States. Herman is an active member of The Society of Petroleum Engineer (SPE), The Society of Naval Architect and Marine Engineers and The American Welding Society (AWS).

John A. Esiegbuya

VICE PRESIDENT (AFRICA) AND GLOBAL HEAD OF FINANCE



John, has amassed over 20 years of deep professional experiences and key competences in accounting, strategy and business planning, budgetary and internal control, enterprise risk management, human capital and facility management, project management and financial reporting.

He was an Accountant with Life Floor Mill Limited, a subsidiary of the Seaboard Group of Companies, Kansa, USA, before moving to Smit Nigeria Limited a subsidiary of Smit International N.V, Netherlands in 1997 where he served as Financial Controller from 1997 to 2003.

John was the Head of Finance, Resourcery Nigeria Plc – a leading Information and Communication organization, Head of Finance & Administration; Sifax Group of companies, a multinational total logistics organization from where he left after he rose to the position of a General Manager. John resigned his position at Sifax to seek further challenges in the oil and gas industry. He joined Lonestar Drilling Nigeria Limited as an Executive Director of Finance with responsibility for Finance, Information Technology and project management.

John, a Chartered Accountant, holds a master’s degree in Business Administration (MBA). He is an associate member of the Chartered Institute of Accountants of Nigeria (ICAN), the Chartered Institute of Shipping of Nigeria (CISN), the Chartered Institute of Arbitrators - London, Chartered Institute of Taxation of Nigeria (CITN) and the National Institute of Marketing of Nigeria (NIMN).

Leongenias A. Barkaskas

VICE PRESIDENT (USA/NORTH AMERICA) AND GLOBAL HEAD OF OPERATIONS



Lonnie Barkaskas has amassed solid technical and hands-on experience of over 40 years in Engineering, with key skills and competences in Mechanical Engineering, Project Management, Management Consultancy and Rig Surveys.

He has spent over 18 years of his working life in the oil and gas sector and at various times held senior engineering positions in Continental Geophysical Canada, Parker Drilling Company USA, Nabors Drilling Company USA and Lonestar Drilling Nigeria Limited, where he worked as a Mechanical Superintendent, prior to his appointment as a Project Manager of Lonestar Rigs 203 & 204 projects.

Lonnie has also at various times held senior operational management positions in Civil Engineering and Construction firms with involvement in major projects in Canada. As an Independent ModuSpec contractor, he has undertaken inspection, surveys and served as management consultant for commissioning of virtually all types of rigs around the world.

Lonnie possesses a number of high profile licenses and certifications with Government of Alberta & Interprovincial, Northern Alberta Institute of Technology, (NAIT), Canada, Southern Alberta Institute of Technology (SAIT) Canada, along with a wide range of USA Certificates in the engineering field that includes Integrated Power Systems, (IPS). SCR Systems), Canrig Technologies, Top drive Systems, International MODU Stability, etc. He is a member of the International Union of Operating Engineers (IUOE) and the International Fire Fighters Association (IFFA). He has undergone various professional trainings and obtained professional certificates in key areas of mechanical, electrical and hoisting engineering.

Gretchen Schellstede

CORPORATE AFFAIRS EXECUTIVE

Gretchen's professional career started in arts management after earning her Master's degree in Museum Administration from The George Washington University, Washington, D.C.

Over the years, she worked and held various management positions in different organizations including a Modern Art European Gallery, Newmark Homes, Kurt E. Schon Ltd, 17th – 19th century European Art Gallery, University Art Museum, University of Southwest Louisiana and Smithsonian Institution Traveling Exhibition Service. Later, this experience branched into the role of international tour manager for university alumni organizations, an experience that took her to over 12 major cities across Europe.

Gretchen's experience in project management includes the areas of wind energy, offshore and onshore drilling and patent matters. She later joined Herman J. Schellstede & Associates, Inc. (Engineering) as a Project Assistant and she is presently the Project Coordinator of Wind Energy Systems Technology, where she is serving as a special project agent and researcher for the company.

Gretchen is a graduate of Tulane University, New Orleans where she obtained Bachelors of Art in History, Studio Art and French. She also holds a Masters of Arts degree in Museum Administration, from The George Washington University, Washington DC. and was recently awarded acceptance to this university for her second Master's degree. She is widely travelled and has studied German at a professional level and can speak French fluently.



OPERATIONS GALLERY



OUR LOCATIONS

CORPORATE HEADQUARTERS

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WE LOOK FORWARD TO SERVING YOU !

COMPANY HSE POLICY STATEMENT

Cranfield's HSE policy provides the framework for the management of health, safety and the environment within which all activities of Cranfield Energy and its business organs are executed. Cranfield Energy targets zero incident operation. To achieve this, the company maintains policies covering journey management, spill control and environmental management, drug and alcohol, community and stakeholder relations management, security and access control, medical and health management, safety and hazard management etc. Contractors working for Cranfield Energy in all the countries where it operates are expected to align their respective HSE policies, systems, procedures and guidelines with that of Cranfield.

E-mail: info@cranfieldenergy.com

Serving the Oil and Gas Industry Onshore, Nearshore and Offshore

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