ROGER W. FINCHER
23B Amherst Court, Conroe, Texas 77304
713 858 5620

Up-dated: 01/2016

Mr. Fincher's 36 plus year career has spanned 32 years of service with the Baker Hughes companies and 4 plus years in an active consulting role for two dedicated primary clients and numinous short term clients and projects for both profit and community support.

Throughout his 32 year career, Mr. Fincher has held a variety of technical and managerial positions within the Baker Hughes Companies. These positions cross all aspects of our industry and include Engineering, Marketing and Operations and retired as a member of the Enterprise Technology Portfolio Management Team. During his career, Mr. Fincher has been directly involved in engineering, field deployment and operational support for medium and short radius horizontal drilling systems, downhole vibration monitoring tools, steerable products and a wide variety of other multi-discipline products, services and tools. Mr. Fincher has also worked through the years with several Baker Hughes joint ventures associated with downhole tool development and deepwater subsea pumping systems, as well as NASA on the Mars Drilling Program and Tool Development project.

Mr. Fincher earned a Civil Engineering Degree, structures specialty, with additional study in Mechanical Engineering, heat engine specialty from the Georgia Institute of Technology. In addition Mr. Fincher has attended many industry short courses. Mr. Fincher is the author of several articles and papers. He holds 48 US Patents with international counter parts as well as an additional 3 pending applications. Mr. Fincher has conducted short courses on Horizontal and Short Radius Drilling, Motor Drilling Mechanics and other energy industry related topics.

In July of 2010 Mr. Fincher retired after 32 years with Baker Hughes to devote full time efforts to his consulting company formed in 2002.

EDUCATION

Formal --
BS Civil Engineering, Georgia Institute of Technology 1979, structural design specialty, a nearly complete Mechanical Engineering minor, heat engine specialty, numerous CE courses, as well as company and industry short courses.

Informal --
Low voltage control and power systems, PCB layout and systems, basic understanding in hydraulic and related electromechanical systems, 2 and 3D computer aided drafting, MS Office systems, metal fabrication and machining, basic understanding of design for injection molding as well as other broad need to know subjects.

PROFESSIONAL EXPERIENCE

Thirty-six plus years of diverse engineering, R&D, product development and management experience.

- July 2010 – Current, - guo modo Innovations, LLC, - Owner
  - May 2014 – November 2015 – 212 Resources, Houston, Texas – Chief Engineering Consultant
    - Provide Engineering and Operational guidance to support a small in-house technical team with plant expansions and rebuilds include

a plant rebuild following an operational fire. Duties included engineering, project management, financial and operational guidance during fire investigation and insurance managed rebuild
    - Provide engineering and operational direction to rebuild an SWD facility purchased in an abandoned condition
    - Support construction completion and project management of a new build Oil Recovery, R-9 permitted facility
    - Provide engineering, 3D cad designs, cost estimates and project logistic planning for a desalination plant expansion study
  - October 2010 – December 2013 – Wireless Instrumentation Systems (WINS) – Trondheim, Norway – Consulting Chief Engineer
    - Served as hands on Chief Engineer for a small prototype development company during the clean sheet creation of a downhole, high temperature, wireless EM production data communication completion tool. Duties included, design, 3D Cad, manufacturing and manufacturing support, tool assembly and in-house testing. Retreat of oil prices has caused the client of WINS to suspend the project until prices recover and funding of field testing and in well installation can be obtained.
  - August 2010 – March 2011 – 212 Resources, Houston, Texas – Sr Engineering Consultant
    - Provided start-up and environmental compliance support for a new build 5000 bpd desalination plant in Collbarn, Colorado
    - Provide operational support and efficiency improvement guidance for a 3500 bpd R-9 permit Oil Recovery facility in Andrews Texas
- 2009 – July 2010 Baker Hughes Enterprise Technology, - Strategic Technical Support
  Responsible for support of Enterprise strategic technology direction, strategic intellectual property prosecution, new technology investigations, and complex field operation support, M&A research and review, and comparative technology review
- 2002 – 2008 Baker Hughes Strategic Development Group, - Team Leader
  Responsible for support of company wide strategic direction, strategic intellectual property prosecution, specialty projects including Mars Drill and other cross divisional strategic development projects
- 1998 – 2002 DeepVision, LLC (A Baker Hughes JV) - Team Leader
  Responsible for many aspects of hydrodynamic and mechanical design, performance testing, support system automation and data logging, and endurance testing of a world scale high-pressure subsea centrifugal pump system
- 1987 – 1998 Baker Hughes Drilling Systems – Product, Technical Services and Operations Manager
  Responsible for strategic technology development of tools, marketing and technical support for BHI INTEQ's downhole drilling tool product line including drilling dynamics with support to automated drilling systems
- 1981 –1982 Sr Project Engineer for Tri-State SynFuels (A Texas Eastman Company)
  Responsible for all non-process site facilities, including site layout, coal handling, process cooling systems, coal ash storage and disposal, etc.

- 1979 –1981 Pipeline, compressor station, liquid pumping and storage facility Design Engineer (Texas Eastern)
- 1977 – 1979 Design Assistant (quo modo, INC) Part-time (in school) structural engineering work and structural design software development

RELATED SELECTED PUBLICATIONS

Development and Successful Application of Unique Steerable PDC Bits
Noris, J.A., Dykstra, M.W., Beuershausen, C.C., Fincher, R.W., Ohanian, M.P. (1998) *IADC/SPE Drilling Conference*, Dallas, Texas, March 1998.

"Drilling in Extreme Environments: Penetration and Sampling on Earth and other Planets", Yoseph Bar-Cohen and Kris Zacny (Editors), ISBN: 978-3-527-40852-8, September 2009, RW Fincher, contributing author

Numerous magazine, technical and internal publications

Granted U.S. PATENTS

9,033,045	Apparatus and method for fracturing portions of an earth formation
8,803,392	Axial magnetic suspension
8,554,482	Monitoring reservoirs using array based controlled source electromagnetic methods
8,535,126	Air flow control mechanism and methods
8,455,402	Wellbore operations using controlled variable density fluid
8,453,760	Method and apparatus for controlling bottomhole temperature in deviated wells
8,444,344	Temporary containment of oil wells to prevent environmental damage
8,348,732	Airflow control system
8,343,894	Controlled variable density fluid for wellbore operations
8,284,075	Apparatus and methods for self-powered communication and sensor network
8,267,197	Apparatus and methods for controlling bottomhole assembly temperature during a pause in drilling boreholes
8,151,878	Apparatus and methods for collecting a downhole sample
8,134,476	Apparatus and methods for self-powered communication and sensor network
8,132,630	Reverse circulation pressure control method and system
8,020,621	Downhole applications of composites having aligned nanotubes for heat transport
8,011,450	Active bottomhole pressure control with liner drilling and completion systems
7,931,098	Steerable bit system assembly and methods
7,836,948	Flow hydraulic amplification for a pulsing, fracturing, and drilling (PFD) device
7,823,689	Closed-Loop downhole resonant source
7,806,203	Active controlled bottomhole pressure system and method with continuous circulation system
7,802,637	Steerable bit system assembly and methods
7,757,784	Drilling methods utilizing independently deployable multiple tubular strings
7,748,474	Active vibration control for subterranean drilling operations
7,730,970	Drilling efficiency through beneficial management of rock stress levels via controlled oscillations of subterranean cutting levels
7,721,822	Control systems and methods for real-time downhole pressure management (ECD control)
7,597,148	Formation and control of gas hydrates
7,806,203	Active controlled bottomhole pressure system and method with continuous circulation system
7,802,637	Steerable bit system assembly and methods
7,757,784	Drilling methods utilizing independently deployable multiple tubular strings
7,748,474	Active vibration control for subterranean drilling operations
7,730,970	Drilling efficiency through beneficial management of rock stress levels via controlled oscillations of subterranean cutting levels
7,721,822	Control systems and methods for real-time downhole pressure management (ECD control)
7,597,148	Formation and control of gas hydrates
7,487,828	Apparatus and method for powering electrical devices along a pipeline
7,400,262	Apparatus and methods for self-powered communication and sensor network
7,353,887	Control systems and methods for active controlled bottomhole pressure systems
7,341,116	Drilling efficiency through beneficial management of rock stress levels via controlled oscillations of subterranean cutting elements
7,313,052	System and methods of communicating over noisy communication channels
7,287,604	Steerable bit assembly and methods
7,219,722	Apparatus and methods for powering downhole electrical devices
7,174,975	Control systems and methods for active controlled bottomhole pressure systems
7,114,581	Active controlled bottomhole pressure system & method
7,096,975	Modular design for downhole ECD-management devices and related methods
7,055,627	Wellbore fluid circulation system and method
7,000,715	Rotary drill bits exhibiting cutting element placement for optimizing bit torque and cutter life
6,854,532	Subsea wellbore drilling system for reducing bottom hole pressure
6,648,081	Subsea wellbore drilling system for reducing bottom hole pressure
6,527,054	Apparatus and method for the disposition of drilling solids during drilling of subsea oilfield wellbores
6,443,249	Rotary drill bits for directional drilling exhibiting variable weight-on-bit dependent cutting characteristics
6,415,877	Subsea wellbore drilling system for reducing bottom hole pressure
6,408,948	Tubing handling for subsea oilfield tubing operations
6,230,828	Rotary drilling bits for directional drilling exhibiting variable weight-on-bit dependent cutting characteristics
6,206,108	Drilling system with integrated bottom hole assembly
6,196,336	Method and apparatus for drilling boreholes in earth formations (drilling liner systems)
6,179,057	Apparatus and method for killing or suppressing a subsea well
6,102,138	Pressure-modulation valve assembly

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Published and Pending U.S. Patents Applications

2014/0347152	Axial Magnetic Suspension
2014/0224640	Distillation Solids Removal System and Method
2014/0053666	Wireless Communication Platform for Operation in Conduits

Personal

- US Citizen, married for thirty-four years, two children, always US based, current address for thirty-four years, extensive international travel and work, English language, good health, no physical limitations, non-smoker, clean driving and other records
- Hands on mechanically inclined, self motivated and driven, big picture focus that can handle details, but prefers the higher level support and creative challenges of being an innovator and creator
- People management capable, but not my life calling, prefer technology management, creation and innovation
- Owner of quo modo Innovation, LLC, a computer aid design, analysis and innovation focused consulting company providing, prototype development and testing, one off fabrication, solution management, problem analysis, and operations support
- Co-Owner of Adaptive-AC, Inc, a start-up with focus on residential and light commercial air balance products for duct based AC systems using patented state of the art autonomous self-powered damper systems
- Co-Owner of Orkem Oil, LLC, 60 acre Jojoba growing ranch in Hyder, Arizona growing and selling organic Jojoba beans for commercial production of high end jojoba oils and products
- Owner of 1505 Warehouse and Storage, 9 build (12,500 ft^2 under roof, 6,000 ft^2 open space) controlled access warehouse and storage facility in Conroe, Texas