



Ronald Boggess

Cone Services Manager

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TDI-Brooks International, Inc.

14391 S. Dowling Rd, College Station, TX 77845

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www.tdi-bi.com

PROFESSIONAL EXPERIENCE

- Cone Services Manager, TDI-Brooks International, Inc., 2020 – Present
- Cone Services Manager, Gregg Drilling & Testing, Inc., 1999 – 2020
- Vice President, SAGE Engineering, 1995 – 1999
- President, Geocognetics, Inc, 1992 – 1995
- Research Engineer, McClelland Engineers, 1983 – 1992
- Research Engineer, Fugro. 1978 – 1983
- Staff Member, Texas A&M University, 1969 – 1978

PROFESSIONAL SUMMARY

- TDI-Brooks International, Inc, Cone Services Manager with over 52+ years of experience in the design and operation of complex instrumentation systems for soil testing in both the laboratory and field. He has designed, built and operated state-of-the-art CPT and drilling systems for McClelland Engineers, Fugro, Geocognetics and SAGE Engineering.
- Served as project manager on numerous geotechnical projects in the United States and abroad. He has also authored a number of technical papers related to Marine Geotechnical Drilling and CPT testing Technology.

KEY ACHIEVEMENTS - TDI BROOKS INTERNATIONAL, INC.

Cone Services Manager

- Design fixtures, tooling, or experimental parts to meet special engineering needs.
- Design of CPT and Drilling equipment for both onshore geotechnical and environmental site investigations.

KEY ACHIEVEMENTS – GREGG DRILLING

Cone Services Manager

- Design fixtures, tooling, or experimental parts to meet special engineering needs.
- Design of CPT and Drilling equipment for both onshore geotechnical and environmental site investigations.
- Deals with technical as well as logistical aspects of the operation of projects both foreign and domestic in addition to his ongoing roll designing new hardware and software systems.

KEY ACHIEVEMENTS – SAGE ENGINEERING, INC.

Vice President

- Dealt with both the technical and business aspects of operating a company engaged in both domestic and international projects and equipment design.
- Design efforts include a continuous push miniature Cone Penetrometer for use in shallow foundation and pavement design projects on land as well as marine cable route, pipeline route and dredge surveys in waters to 6000+ feet.

KEY ACHIEVEMENTS – GEOCOGNETICS, INC.

President

- Dealt with business and technical operation of an engineering company engaged in domestic and international operations.
- Operations included a 17 boring Marine Geotechnical drilling program in Venezuela for the El Palito loading terminal expansion and an instrumented pile installation to measure excess gas pressure in the foundation zone for ARCO in Indonesia.

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KEY ACHIEVEMENTS – FUGRO - MCCLELAND

- Research Engineer, Manager of Electrical Engineering, Manager of Equipment Development, and Manager of Exploration.
- Involved in all aspects of Marine Geotechnical Site Investigation including project specific equipment design, project management and field operations.
 - Served on principal design team for the DOLPHIN down-hole CPT/in-situ vane system and was a consultant to the TSP design team.

KEY ACHIEVEMENTS – TEXAS A&M UNIVERSITY

- Staff member of the Civil Engineering Department
- Participated in research projects involving Dynamic Earth Penetration, Pavement Design and Testing, Response of Expansive Clay & Behavior of Marine Sediment.
 - Responsible for instrumentation design and laboratory testing in support of numerous Masters and Ph.D. Candidates.
 - Participated in both undergraduate and graduate laboratory instruction.

FORMAL EDUCATION

- B.S., Mechanical Engineering, 1972, Texas A&M University

PROFESSIONAL ACHIEVEMENTS

- Served as Principal designers of McClelland Engineers' DOLPHIN system.
- Issued a patent for his design of a miniature cone penetration system which has been use onshore as well as offshore.
- Designed built and operated 10 sq-cm coiled tube CPT system
- Designed GAMMA detector to use in conjunction with cone penetrometer system

PATENTS

- **Soil Analyzer And Penetrator**

Patent number: 4726239

Abstract: A soil analyzer and penetrator for driving into the ground, having a hydraulic ram with a longitudinal opening with a hollow tubing extending through the opening. A two-way chucking mechanism engages the outside of the tubing for driving the tubing into the ground and pulling the tubing from the ground. A coiling and straightening mechanism is positioned above the ram engaging the tubing for coiling the tubing as it is removed from the ground and straightening the tubing when it has been driven into the ground. A cone is connected to the bottom end of the tubing and may be of various types for measuring various ground parameters and inserting or removing materials into/from the ground.

Type: Grant

Filed: February 9, 1987

Date of Patent: February 23, 1988

Assignee: McClelland Engineers, Inc.

Inventors: Ronald L. Boggess, Lowell V. Babb, Alan G. Young

- **Device For In Situ Testing Of Soils That Includes A Vent Valve Adapted To Close At A Predetermined Depth During Installation**

Patent number: 5259240

Abstract: A module model pile tool in situ testing of soils. The tool has an upper instrument section, a lower anchor section, and an axial slip joint located between the instrument section and the anchor section. The anchor section may be

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configured to model either open-end or closed-end piles. In the open-end configuration, a vent and vent valve are provided to vent trapped fluid during the initial stages of installation by remaining open only to a predetermined depth so as to permit formation of an undisturbed soil plug and to close in order to prevent fluids from being vented into the actual soil to be tested. The instrument section includes instrumentation for measuring axial loads, axial accelerations, pore water pressure, and total lateral pressure. Instrumentation for measuring axial displacement is included in the slip joint. The tool is rugged enough to permit installation by pile driving, and the instrumentation may be monitored both during and after installation.

Type: Grant

Filed: April 3, 1992

Date of Patent: November 9, 1993

Assignee: Exxon Production Research Company

Inventors: Richard D. Raines, Ronald L. Boggess, Wilson C. Lamb, John S. Templeton, III

- **Hydrostatically Compensated Deep Sea Probe With Shear Strain Gauges**

Patent number: 7810381

Abstract: A hydrostatically compensated soil resistance probe includes a cylindrical body having a distal tip for insertion into a material, a plurality of load gates for transitioning an axial load on said cylindrical body to a shear load, and a plurality of shear load sensors to measure a transverse loading on said probe due to an axial loading. The axial loading can be the result of the resistance on the probe tip to the insertion of the probe in the soil, or the frictional forces acting on a friction sleeve as the probe passes through the soil.

Type: Grant

Filed: June 11, 2008

Date of Patent: October 12, 2010

Assignee: Gregg Drilling & Testing, Inc.

Inventor: Ronald Boggess

- **Small Footprint Coiled Tubing Apparatus**

Patent number: 10392880

Abstract: A coiled tubing conveyance apparatus includes a tubing injector and a guide roller frame having a coiled tubing reel attached thereto movably mounted on the tubing injector. The guide roller frame includes at least one guide roller to straighten a coiled tubing extended from the coiled tubing reel. A transverse motion apparatus is coupled to the tubing injector and the guide roller frame such that the guide roller frame is movable transversely with respect to a direction of motion of coiled tubing through the tubing injector.

Type: Grant

Filed: December 8, 2017

Date of Patent: August 27, 2019

Assignee: Gregg Drilling, LLC

Inventor: Ronald Boggess

PUBLICATIONS

- Characterization of expansive clay roughness of pavements, R.L. Lytton, R.L. Boggess & J.W. Spotts, Annual Meeting of TRB, Jan 1975, Washington D.C.
- The Duomorph- A complex modulus Transducer, R. Boggess & J. Noel, JANNAF – Structures and mechanical behavior working group, 14th Meeting April 1977
- The Duomorph – An In-Situ Viscoelastic Characterization Transducer, D. Saylak, J.S Noel & R. Boggess, Proceedings of 6th international conference on experimental stress analysis, Munich, Sept 1978



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- A new groundwater survey tool: the combined cone penetrometer/vadose vapor probe, S Litherland, T Hoskings, R. Boggess, McClelland Engineers inc.
- A cone penetrometer for beach reconnaissance, W. Preslan, D. Lourie, R. Boggess, McClelland Engineers
- Advanced in-situ instruments for studying the behavior of cyclically loaded friction piles, R. Boggess, J.D. Bogard, & T.K. Hamilton, ERTEC Inc. Houston TX
- Mini-Probes: A new dimension in offshore in-situ testing, A.G. Young, L.V.Babb & R.Boggess, Fugro-McClelland Inc.
- CPT for soft sediments and deepwater investigations, P.K. Robertson & R Boggess, CPT 10 Long Beach California