

## **Curriculum Vitae**

### **Steve L. Clark**

Authorized Agent of Systems International, Inc. (formerly known as Oilwell Control Services, Inc.) with more than 45 years experience in Oil well blowouts and failure control where he has controlled successfully 2,023 oil well blowouts, disaster and environmental management, drilling operational management, quality control and quality assurance management, and comprehensive environmental clean-up and restoration. Systems International, Inc. is an energy and environmental services firm providing a combination of consultation services to large energy firms as well as governmental agencies. Steve L. Clark has invented and currently holds more than a dozen patents on various control and quality devices in the oil drilling industry for Quality Control and Quality Assurance of drilling programs and well designs as well as the series of ZEROS patents for the destruction of oil, organic and toxic waste without emissions and the cleaning of pollutants from soil and water without the release of pollution into the atmosphere. These patents also cover the conversion of organic mass to electrical energy, distilled water and Biofuels without any negative environmental impact such as released greenhouse gasses to the atmosphere.

### **Systems Operations**

Inventor and developer of various technologies and techniques related to determining oil well drilling tubular embrittlement and accumulated cyclic fatigue stress failures. Developed processes for preventing and controlling oil well blowouts and failures. Author of various articles on guidelines for safety operations of drilling rigs, production manuals, and quality and safety audits of drilling and production facilities both on and offshore. Manager of Availability and Drilling Operations Projects as well as Interdiction, Control, Containment and Remediation of major oil spills, fires and disasters. Provide quality control management for major oil companies such as Conoco, Shell, Gulf, Hunt, Texaco, Getty, Exxon, Chevron, Anadarko and Arco.

### **Data Systems Management**

Develop and patent the OCS SMART III System for deployment of plume monitoring and analysis of contamination plumes from environmental disasters. The SMART III System (Systems Monitoring Analysis and Remote Telemetry) was developed to be the first GIS system that was a web based Geographical Information System to monitor and report and database information about pollution plumes resulting from contamination. The system was successfully deployed for the US Army and Department of Navy on BRAC base cleanups in California and was deployed on contract for the State of California.

### **Research and Development**

Developed and patented the ZERO-emission Energy Recycling Oxidation System to provide a method to destroy non-toxic and toxic waste without creating any emissions to the atmosphere or water. The system prototype was tested and granted an exemption from the Texas Natural Resources Commission (currently Texas Commission of Environmental Quality) and the US Environmental Protection Agency as requiring no air quality permit for construction or operation. Further developments resulted in patents for methods to clean water and soil within the same no emission exemption. Work with Oak Ridge National Laboratory and Texas A&M University have led to development of applications utilizing the ZEROS System

Technology to Power Steam Electrical Generating facilities with no emissions and optimization of fuels and the disposal and use of agricultural waste to generate electricity and clean water. Additional developments also include the use of the ZEROS System Technology to produce purified water, and liquid synthetic fuels (Biofuels) from biomass, agricultural waste, municipal solid waste or any carbon based material as a product of the system operations.

### **Project Management**

Has more than 40 years experience in project management for equipment manufacturing and delivery, equipment operational compliance, project development and long-term systems operations. Have developed major projects for oil companies such as Conoco and Shell and for manufacturing companies such as Hyundai, Volvo and Nova Bus. Managed large environmental restoration project such and the US Navy CLEANS II project for the closure of 15 closed military facilities in the Bay Area in California.

### **Construction and Construction Management**

Has over 40 years construction and construction management experience. Clark worked as a craft constructor, welder/fitter and excavator for Howard Iron Works in Brownsville Texas in the 1960's. He also performed as area manager for the layout phase of the Alyeska Trans-Alaska Pipeline in the early 1970's. He founded Oilwell Control Services in 1972 where he was the first to follow the famous Red Adair as an oil well control specialist. He retired from OCS in 2000 when the company was sold to System International, Inc. Following this Clark was Project and Construction Manager for Volvo America while moving the Nova Bus factory in Roswell New Mexico. Clark has also overseen many mobile onshore and offshore drilling and production facilities constructions including their installation and commissioning. He has also overseen the construction and completion of several oil country tubular goods mills and process facilities.

### **Disaster Crises Response**

While performing response tasks on oil disasters with the development of the EPA for major oil companies Clark also developed the tools and techniques to first respond to man made and natural disasters with the emphasis on containment, control and remediation of the disaster with a minimum of impact on the environment. Teams led by Clark have responded to oil spills, earthquakes, floods, hurricanes fires and tornados and ice storms. In each of these cases the projects have been completed with the major effort on restoring the community to its functional state and minimizing the disruption of life to the citizen while protecting the environment.

### **EDUCATION**

TEXAS A&M University (Extension School), Spartan College, Clayton University

### **PROFESSIONAL QA/QC CERTIFICATIONS**

American Society of Mechanical Engineers: SNT-TC-1A Level III. All disciplines  
American Welding Society: QC-1A certified  
Federal Aviation Agency Airframe and Plant Certificate  
FAA Commercial Pilot Airplane/Helicopter Instrument Jet Type rating

National Association of Corrosion Engineers  
International Standards Organization  
American Bureau of Shipping  
American Petroleum Institute  
American Society for testing methods  
International Standards Organization

### **PUBLISHED PAPERS**

- 1974 Cause and effect of down hole tubular failures; Alyeska state of Alaska
- 1975 Cause and prevention of rotary shouldered connection failures in drill pipe and drill collars; Shell Oil Company
- 1979 Ultrasonic evaluation of cyclic fatigue and hydrogen sulfide embrittlement of drilling tubular goods; API and Conoco Oil Co.
- 1980 Control of underground blowouts; API and Chevron Oil Co.
- 1981 Tri-axial effect of stress on production tubing; Sim-Tex and Hyundai
- 1987 Oil spill interdiction and remediation; Conoco Oil Co.
- 1989 Oxidation as a method to remediate hydrocarbon spills; Conoco and California DEQ
- 1992 Comparison of major leading technologies for remediating waste; Mexico Institute of Environment
- 1995 Contamination plume migration and control; PRC/Tetra Tech
- 1996 Crises response, containment, control and remediation with no emission; TNRCC and USEPA emergency response

### **INTELLECTUAL PROPERTIES**

- 1979 Ultrasonic evaluation of rotary shouldered connections on drill collars
- 1980 Transducer application for inspection of cyclic fatigue in drill collars
- 1981 Pulsar-receiver application for compression wave ultrasound
- 1997 ZEROS (ZERO-emission Energy Recycling Oxidation System)
- 1998 ZEROS Bio-dynamics for non-thermal cleaning of soil
- 1999 ZEROS Aqua-dynamics for purifying water
- 2005 ZEROS Flash distillation for treating contaminated water
- 2006 ZEROS Power for optimizing hydrocarbon fuel and Zero emission coal generating plants
- 2006 ZEROS Hydro-X for extracting Hydrogen alternative fuel from waste disposal
- 2007 ZEROS Bio-fuels for extracting bio-diesel and bio-gas from agricultural waste
- 2008 ZEROS Process for cleaning hydrocarbons from soils