



**JOSEPH A. PEZZULLO, P.E.**  
**President**

## EDUCATION

B.S.E., 1978, Geological Engineering, Princeton University  
B.S.E., 1978, Civil Engineering, Princeton University  
Marine Geology, 1976, West Indies Laboratory, St. Croix, USVI  
Schlumberger Geophysical Logging School, Bathgate, Scotland 1977  
Certified Professional Diver, Marine Science, 1976 NAUI License SP-903  
Registered Professional Engineer, Texas 59884

## HISTORY

2000 – Present Global Engineering Solutions & Current Environmental Solutions, President  
1987 – 2000 Terra Vac Corp., Vice Pres.  
1991-1998 Managing Director, Terra Vac(UK) Ltd  
1991-1998 Managing Director NST Entec, Japan and GeoVac,SA France ( JV's sold 1998)  
1982–1987 Kelpinger/McCord-Lewis Energy Services, Sr. Petrophysicist/ Sr. Petroleum Eng. – Dallas, TX  
1978-1982 Societe' de Prospection Electrique Schlumberger, Schlumberger Overseas Well Services – Senior Geophysical Engineer, Paris, France and London, England

## RELAVENT EXPERIENCE

Mr. Pezzullo has served as president of CES since Nov. 2000. Previously, Joe was a vice president at Terra Vac Corp since 1987. At Terra Vac, he served as the Supervising Engineer , Regional and International Operations Manager, and as the Technology Development and Training Coordinator. Mr Pezzullo has over 27 years of civil and geophysical engineering experience dating back to his work in the oil field with Schlumberger which began in the North Sea and led to assignments throughout the world. In the environmental industry, Joe has been supervised over 400 remediation projects throughout the world using a wide variety of remediation technologies and process designs. A few of these projects are described briefly below;

Mr. Pezzullo was the Supervising Engineer responsible for the successful implementation of Terra Vac's Superfund Innovative Technology Evaluation (SITE) demonstration (1987/88) for in-situ soil vacuum extraction (SVE) at the Groveland Wells Superfund Site, Groveland Massachusetts under the auspices of EPA. This represented the first application of the SVE technology in the USA and led to the rapid evolvement of SVE as the leading technology to remediate soils and groundwater that are contaminated with petroleum hydrocarbons and volatile organic compounds.

Supervising Engineer responsible for the design, construction and O&M of a 15,000 SCFM dual phase extraction system at the Tyson's Superfund Site in King of Prussia, PA. This 200 well remediation process was applied in soil, groundwater and bedrock, and the system utilized two 750 Hp five-stage centrifugal extraction blowers, two 250 Hp extraction blowers , on-site carbon reactivation, and a solvent recovery system. In 5 years of operation, the system removed over 2,000,000 lbs (2 million pounds) of VOCs from the subsurface. The site was closed in 1996.

Joe was the Managing Director of Terra Vac(UK) Ltd, from 1990 to 2005. He was instrumental in the international growth of Terra Vac, and he developed Terra Vac (UK) into the leading provider of environmental services in the United Kingdom. TV(UK) was sold to its employees in 2005.

After the break-up the former Soviet Union, Joe positioned Terra Vac to respond to the environmental needs of former Soviet States, and he was responsible for the design, construction and O&M of the first self-funding clean-up at a former Soviet airbase in Uzyn, Ukraine with jet fuel recovery and resale of more than 100 metric tons per month. Using a dual phase extraction process, Mr. Pezzullo designed a recovery system to remove LNAPL from the subsurface which was then combined 50/50 with a fresh diesel fuel. The reconstituted product was then sold on the open market. Recovered condensate was treated to USEPA drinking water standards with an innovative filtration process using combination of hay and peat moss.

Mr. Pezzullo's successful work in Ukraine resulted in his being selected as the Keynote Speaker for the North Atlantic Treaty Organization's (NATO) annual science conference held in Vilnius Lithuania in October 1997. He spoke on 1) NATO and former Soviet base conversions in Europe; 2) Eastern Europe and NIS focusing on the social and economic ramifications associated with environmental impairment and 3) Innovative methods to implement self-funding environmental solutions at bases under conversion to civilian use.

When the government of France contacted Terra Vac following a the derailment of several gasoline tanker cars at Chavanay and La Voulte, Joe organized emergency crews and equipment to respond. Mr. Pezzullo's teams mobilized to the sites in France from the USA within 24 hours of notice, and commenced drilling and recovery processes while the towns were still burning from the explosions. This work required careful coordination with the French government and fire departments, with much of the work conducted under level A and B personal protection. Both projects were successful in recovering over 90% of the spilled hydrocarbon within 4 months and prevented widespread pollution from migrating beyond the immediate spill area. The work was so successful that it led to the formation of GeoVac, sa, a French joint venture between Terra Vac and Lyonnaise des Eaux, now part of Vivendi, the giant French water treatment company.

At Keplinger/ McCord-Lewis, Joe managed worldwide petroleum engineering projects and petrophysical evaluations for this multinational petroleum engineering consultant. He managed private and World Bank funded oil and gas exploration projects worldwide, including training of international groups on petrophysical evaluations in oil and gas E&P. During his tenure with McCord Lewis, Joe was a guest lecturer and instructor in Petroleum Engineering and Petrophysics at the Imperial College of London.

While working at Schlumberger, he performed a wide range of oil field well services throughout Europe and Africa, including geophysical surveys, wireline logging, production logging, reservoir testing and petrophysical evaluations for major oil and geothermal clients. He was responsible for the supervision, training, and management of oil rig service personnel in numerous remote locations. He was also responsible for corporate training for nuclear H&S and blowout control.

Mr. Pezzullo is a Co-Author of Terra Vac's OxyVac™ patent. (US patent No. 5,615,974, European Patent No. 0741611, Canadian Patent No: 2,182,668 )

As a professional and commercial diver in marine science, Mr. Pezzullo was the geophysical engineer and member of the science dive team sanctioned by the US Geological Survey responsible for the geophysical mapping of the subsea canyon at Salt River Bay, St. Croix. USVI. This dive team also designed and planned the deployment of the subsea research vessel which was placed on the canyon floor for ongoing marine research.

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## **PROFESSIONAL AFFILIATIONS**

Registered Professional Engineer, Texas 59884  
Society of Petroleum Engineers (SPE of AIME)  
Society of Professional Well Log Analysts (SPWLA)  
National Ground Water Association (NGWA)  
Certified Commercial Diver, National Association of Underwater Instructors

## SELECTED PUBLICATIONS

*Daubin, D.L., Pezzullo, J.A., Suffrige, F.E.;* "Evaluation of the Little Knife Minitest", U.S. Dept. of Energy Report: DOE/BC/10830-3; Technical Information Service, Springfield, VA, 1985.  
[Carbon dioxide flooding for tertiary oil recovery]

*Pezzullo, J.A.;* "Keeping Africa's Waters Clean - Act Now...Before It's Too Late", Proceedings of the Seventh Annual Technical Conference of the International Association of African Scientists, Sept. 10-11, 1990; ISAS Publications, P.O. Box 9209, Wilmington, DE, 19809, U.S.A.

*Pezzullo, J.A., Peterson, R.M., Malot, J.J.;* "Full Scale Remediation at a Superfund Site Using In-Situ Vacuum Extraction and On-Site Regeneration, Case Study - Phase 1", Proceedings of the 11th. National Conference, Superfund '90; Hazardous Materials Control Research Institute, Silver Springs, MD. Nov. 26-28, 1990, pp.624-627.

*Malot, J.J., Pezzullo, J.A.;* "Effective In-Situ Cleanup of Subsurface Contamination with Solvents or Hydrocarbons", Proceedings HAZPAC '91, Hazardous Waste Management in the Pacific Basin, Cairns, Queensland, Australia, April 16-19, 1991.

*Pezzullo, J.A.;* "Efficient and Cost- Effective Programs for Soils and Groundwater Restoration", Proceedings EnviroPro '92, Environmental Protection and Control Technology, Kuala Lumpur, Malaysia, October 28-31, 1992, pp.1095-1103.

*Pezzullo, J.A.;* "Advances in the Vacuum Extraction Technology for Effective Subsurface Remediation", American Institute of Chemical Engineers, 1993 Summer National Meeting; Seattle, WA, August 15-18.

*Pezzullo, J.A. Jorgensen, B, Kolle, M., Pjipers, M.,* "Remediation in A Dutch Residential Neighborhood using Electric Resistance Heating." Battelle Fifth International Conference on Remediation of Chlorinated and Recalcitrant Compounds, May 2006.

*Pezzullo, J.A. Thomas, C.T. & Kenyon, R.* "Hot Floor/Hot Wall" ERH Defeats DNAPL at Camp Lejeune.", Battelle Fifth International Conference on Remediation of Chlorinated and Recalcitrant Compounds, May 2006.

## Patents

Process for Decontamination of Soil and Groundwater using In-Situ Oxidation and Vacuum Extraction.  
US Patent: 5,615,974 April 1, 1997  
Canadian Patent No: 2 182 668 September 21, 2004