

DR. KURT-MARTIN STRACK

1303 Warwickshire Dr.
Houston, Texas 77077

(281) 293-8144

Email: Kurt_@KMSTechnologies.com

SUMMARY

Over 30 years international experience in geophysical/borehole logging/reservoir engineering technology for the oil/geothermal industry and academia (mostly electromagnetic and borehole geophysics). Spawned service companies in electrical methods. Developed and pioneered several complete geophysical systems including hardware, acquisition and interpretation technologies. Mentored over 100 scientists/engineers active in their field at world-class levels. Have demonstrated excellent organizational, communication and problem-solving skills. Fluent in German and English with working knowledge in several others (French, Spanish, and Thai).

PROFESSIONAL EXPERIENCE**KMS Technologies - KJT ENTERPRISES INC. Houston, Texas 1999 – present**

President and Founder of a technology transfer/development/training/strategic marketing company. Provides Executive consulting to several major oil and Geoscience companies that develop high technology services for the oil industry. Developing several game changing marine technologies.

- Lead the company through foundation to sale in 2007. Employees re-acquired the company in December 2009. The company was sold in 2007 for \$40 Million and the KMS Founder's received the Cecil H. Green Enterprise Award from the Society of Exploration Geophysicists for the sale in 2012.
- Develop special technologies (Interdisciplinary high value niche technologies) for major oil companies. (downhole logging tool development, permanent sensor technology development; emphasis is on electromagnetics, gravity and passive seismics)
- Leading development of innovative marine EM technology involving, US DoE, major oil company and several teams of experts around the globe.
- Develop several marine EM technologies with large patent coverage.
- Developing novel technology for geophysical permanent reservoir sensors for porosity and fluid with support from major oil companies.
- Carried out one of the largest commercial sub-salt imaging projects using electromagnetics
- Develop oil industry research consortia including major companies to facilitate techno-transfer of niche technology (single well seismic/Em, permanent fluid front monitoring, selective borehole tools etc.)
- Consulting in market and technical strategies for technology companies in oil industry. (Now limited to major oil companies only).
- Member of the Board of SEAM Corporation a non - profit subsidiary of the Society of Exploration Geophysicists that is generating the next generation of 3D model for the oil industry. I was replaced by 3 new members to cover my skill sets.
- SEG Global Affairs Committee Advisor and past Research Committee Chair and frequent participant in many SEG activities.
- Adjunct Professor at the University of Houston (EE and Earth & Atmospheric Sciences departments, Borehole Geophysics and Well Logging & EM for Petroleum)
- Adjunct Professor at Mahidol University, Bangkok (Physics Dept. in electrical geophysics)
- Honorary and Adjunct Professor of geophysics at Yangtze University, China (EM & well logging; R&D)
- Teach industry short courses in Borehole Geophysics, Petrophysics, Electrical methods for hydrocarbon/geothermal E&P and Geoinversion.

BAKER HUGHES - BAKER ATLAS – Houston, Texas**1997 - 1999**

(Baker Hughes 8/1998 acquired Western Atlas)

Chief Scientist

Responsible for advising president and senior executives in all matters related to scientific technology transfer and education. Facilitated technology transfers, evaluated advanced external technologies, and developed internal and external education concepts for business promotion. Initiated/developed special projects until handover was found.

- Developed strategies for external sponsored technologies (electrical logging, borehole gravity, and borehole seismics), which resulted in a prospective 50% reduction in time to market.
- Developed Science Road Show for different logging technologies, which significantly improved trust/relationships between customers and our global field operations.

- Acted as senior point of contact for BHI Chair in Petrophysics/Borehole Geophysics at Colorado School of Mines and the Formation Evaluation professorship at University of Texas. Was instrumental in attracting the present position holders. This allowed BHI to tune the future direction of the profession and industry.
- Developed and implemented internal Continued Education concepts for executives and Advanced Logging School. Developed web-based communication resulting in better understanding of new generation technologies.
- Established many direct links between inter-corporation divisions and external entities, which created new service opportunities and resulted in a 60% timesaving.
- Advised numerous key projects, guided them to breakthrough and mentored numerous individuals, which led to continuously progressing development.
- Facilitated interaction between operations, customers and headquarters that reduced PONC by several million dollars.

WESTERN ATLAS LOGGING SERVICES – Houston, Texas **1992 - 1997**

Manager, Advanced Scientific Research & Electrical Methods Technology (1993-1997)

Responsible for developing several new logging technologies (from road map to transfer point) and building of one of the largest world class research organizations.

- Designed and developed resistivity logging technology for formation evaluation in open and cased wells. This yielded the most aggressive resistivity logging programs in the industry.
- Developed and presented globally over \$5 million of external funded R&D which resulted in better relationships with customers and more focused R&D.
- Built sensor laboratory to accelerate feasibility stage of new projects. This resulted in the design of a three-component logging tool that worked the first time when it went into a borehole.
- Hired over 60 scientists and engineers from 20 different countries, all at world-class level, integrated them into US work and living environment and guided them to produce at a multi-fold output level above average industrial researchers. This resulted in more patents, publications for the company and innovative products. (Using scientific master operating procedures)
- Built foundation of numerous departments (borehole acoustics, borehole seismics, super-computer facility, modeling and inversion, Technology Library, etc) that yielded new products with potential of over \$20 million in revenues.
- Changed a global service organization's technology from "me too" to a leadership position resulting in millions of dollars in increased revenues and better company image.
- Acted as troubleshooter/facilitator in many tight technical situations (with customers) which resulted in more trustful relationships and increased business.

UNIVERSITY OF COLOGNE, Koeln, Germany **1983 - 1992**

Assistant Professor (Geophysics)

Responsible for buildup of Exploration Geophysics group from financial, technical, research and teaching side. Began with 50% research assistant time as support and expanded to a group of 80 members funded by external projects.

- Developed numerous new technologies that generated multiple jobs in geophysics in Germany (academia, consulting, engineering geosciences). Realized numerous breakthroughs in hardware and software.
- Developed new electromagnetic exploration method and demonstrated effectively in China and India for oil exploration and earthquake prediction. Unproven concepts were confirmed in China and sediments underneath basalt cover were identified in India. The developments yielded key information used for the selection of the German Deep drilling location.
- Supervised over 60 graduate theses leading to about 40 active professionals in the industry.
- Pioneered 3-D electromagnetic modeling that nurtured expert groups in the U.S., Europe and Australia.

HARBOURDOM CONSULTING GmbH – Koeln, Germany **1989 - 1992**

Founder and President

Developed Technology Transfer Company that provided jobs for young university graduates.

- Founded and organized the company that is still active in area of technology transfers which provided jobs to four people for over ten years.
- Developed technologies for interpretation, data processing (electromagnetics), borehole gravity, and

3-D modeling, engineering geophysics software, which resulted in active niche technology product lines.

- Consulted numerous governments (Indonesia, India, China and Germany) and companies around the globe in geophysics for marine, natural disaster prediction and airborne application, which produced \$0.5 million in revenues per year.

PRIOR WORK EXPERIENCE

- Research Assistant - Macquarie University, Australia (1983), magnetotelluric data processing, graphics library development, EM system hardware and software development.
- Manager, Geophysics Department - Operation; & R&D Mgr. - Group Seven Inc., Denver, Colorado (1981-1983), geothermal exploration.
- Research Assistant - Colorado School of Mines, Golden, Colorado (1980-1981), petrophysics and established small geophysical museum.
- Research Assistant - The University of Cologne, Germany (1977-1979), computer science, geophysics; Technical University Prague, SFSR (1978), statistical physics; Tel Aviv University (1977), astrophysics.
- Sound and Cinema Engineer - Lorenz Kinotechnik, Germany (1975-1979), designed, built and maintained technical systems (with high degree of reliability) for movie theatres.

EDUCATION

Ph.D., Geophysics - University of Koeln, Germany –1985
M.Sc., Geophysics - Colorado School of Mines, Golden, Colorado – 1981
Special Studies at Macquarie University, Sydney Australia – 1982
Houston Baptist University – Exec. MBA Course (1998)

AWARDS

Distinguished Technical Achievement Award (SPWLA)
Reginald Fessenden Award (SEG)
Special Services Award (SEG)
Foreign Member Russian Academy of Sciences
Kapitsa Gold Medal of Honor (RAS)
Honorary Professor Yangtze University, China
Member, Expert Advisory Committee, KLETOR, Ministry of Education, China
Cecil H. Green Enterprise Award (SEG)