



[www.accumyn.com](http://www.accumyn.com)

## IAN THREADGOLD, CSP

### SUMMARY

Mr. Threadgold, an affiliate director at Accumyn, is a Certified Safety Professional (CSP) and serves as a safety management systems expert and auditor in the capital project management, petroleum & chemicals and industrial safety & quality assurance practices. He is the founder and owner of Threadgold Safety Management L.P. which is a specialized consultancy providing safety management services and advice to the geophysical sector and to the broader oil and gas industry. His over forty years of technical, supervisory, managerial and operational experience in worldwide exploration projects in the upstream oil and gas industry has provided him with exceptional project management and safety management insight. His deep knowledge of operating company safety, health and environmental management processes enables him to professionally address almost any facet of worker safety management in the petroleum industry today.



After joining a UK based geophysical contractor and transferring to the US, Mr. Threadgold managed a dedicated client processing center, worked for an independent oil company and ultimately joined a major operating company where he served in increasingly more responsible positions for over thirty two years. His employment involved a number of senior international positions in a variety of seismic acquisition and processing roles, including project and operations manager positions on land, marine, and aeromagnetic geophysical surveys.

Mr. Threadgold gained an intimate appreciation of the Health, Safety, Security and Environmental (HSSE) field in the petroleum industry through his operational experience and successful engagements with government agencies, national oil companies, multi-national partners and domestic and foreign regulatory bodies. He has held network leadership and segment technical authority positions related to geophysical operations HSSE, and has authored corporate defined practice procedures for management of geophysical operations.

Mr. Threadgold holds a bachelor's degree in physics and geology from Manchester University in the UK. He completed The Management Program at Rice University's Jesse H. Jones Graduate School of Administration in 1996. He passed, with distinction, the National Examination Board of Occupational Safety and Health or NEBOSH's International General Certificate in Occupational Health and Safety. He is also a certified OHSAS 18001:2007 Lead Auditor, and a member of several professional societies and industry associations. He was Chairman of the International Association of Oil and Gas Producers (OGP) Geophysical HSSE Subcommittee from 2008 to 2010, has been Chairman of the Society of Exploration Geophysicists HSSE Committee since 2013 and in 2015 was asked to join the Society of Petroleum Engineers HSSE and Social Responsibility Advisory Committee. In 2017 he started working with the NORA Oil & Gas Extraction Council on key safety issues for the US oil and gas industry. He has presented more than twenty five technical papers at conferences on safety and technical topics, is the holder of a US patent for a geophysical survey process, and has participated in developing, writing and editing numerous industry guidance documents on occupational health and safety issues.



## EMPLOYMENT HISTORY

- 2010 **Threadgold Safety Management**, Principal Consultant and Owner
- 1999 to 2010 **BP (after merging with Amoco)**, Segment Technical Authority for Geophysical Operations, and other positions in Houston, Cairo and London
- 1978 to 1999 **Amoco**, Geophysical Operations Coordinator/Manager and other positions in Houston, Abu Dhabi, Cairo and Ankara
- 1977 to 1978 **The Superior Oil Company**, Processing Team Leader, Houston
- 1974 to 1977 **Petty-Ray Geophysical**, a division of **Geosource**; Geophysicist and processing Center Manager, London, Houston and Los Angeles

## REPRESENTATIVE PAST PROJECTS - EXPLORATION & PRODUCTION OPERATIONS

- Litigation Support in the drilling sector of the oil and gas industry. Accumyn Consulting was hired to provide drilling and safety management expertise for the legal team of a defendant in a case involving a personal injury claim arising from a drilling rig accident in Texas. Accumyn was asked to review documents related to the incident, and the plaintiff's expert reports, and render opinions, including relevant oil and gas industry best practice for safety management and also concerning applicable OSHA regulations. In the area of safety management, an expert report was written providing opinions that rebutted the plaintiff's expert report. Mr. Threadgold's report identified that the opposing expert had cited OSHA regulations that specifically did not apply to oil and gas well drilling operations. Mr. Threadgold was able to identify numerous industry best practices that were not followed by the injured party's employer, along with the employers own company procedures and policies. The case was eventually settled out of court.
- Segment Technical Authority for Geophysical Operations, at BP in London and Houston. Authored the company's Segment Defined Practice for Management of Geophysical Operations; was responsible for setting policy on geophysical HSSE issues such as competence requirements etc., providing guidance to senior management, and was a member of the company's Environmental Technology Board, (2008 to 2010).
- Geophysical Delivery Manager. Managed the geophysical operations team of the Angola SPU from London, responsible for delivery of a program consisting of Hi-res 3D and 4D seismic, and an 8 month Wide Azimuth Towed Streamer seismic project (the first outside the GoM) with a combined budget of \$0.3 Billion. All 4 surveys completed successfully in terms of HSSE, data quality, timing and budget, (2006 to 2009).
- Geophysical Operations HSSE Network Leader. Managed the network's performance contract, tracking global geophysical HSSE performance, organizing/running network meetings, organizing the annual contractor HSE-Management System Audit program, sharing best practices and safety alerts and other related activities aimed at improving HSSE performance, (2005 to 2008).
- Geophysical Operations Manager. Worked in the Exploration & Production Technology Group in Houston managing the industry-changing Southern Green Canyon Wide Azimuth Towed Streamer (WATS) field trial (over Mad Dog), with a team of 18 consultants during the tendering, planning and



operations phases, and completing the survey with an excellent HSSE record. Tendering and planning also for the follow on program of WATS surveys at Puma and Tubular Bells into 2006. One of the co-authors on the WATS Patent (granted in 2008), (2003 to 2006).

- **Project Manager.** Gulf of Suez Demultiple Project, Cairo, which was an R&D project focused on seismic data quality advancement, in order to improve trap definition, and create a larger quality exploration drilling portfolio. Project scope included defining and pursuing wide azimuth seismic acquisition tests, advancing demultiple processing technology, and carrying out joint R&D with contractors in support of the Regional Processing Center. Project managed a High Res Aeromagnetic operation, and was involved in HSE aspects of land seismic operations in the Western Desert where mine clearance raised the risk levels, (2000 to 2002).
- **Geophysical Operations Coordinator/Manager.** Project management of seismic operations in various locations around the world, both acquisition and processing, including survey planning, design, tendering, HSE and operations. In 1998 this included completing the largest proprietary 3D survey in the world at the time, (1996 to 2000).
- **Technology Manager.** Responsible for seeking out Former Soviet Union (FSU) technology provider organizations and evaluating their capabilities, internally communicating best practices and providing technology transfer, and development of a technology strategy for Amoco's operations in the FSU. Developed relationships with both Ministry officials and Russian partners, the success of which resulted in assignment as Project Manager for a multidisciplinary technical project. Accomplishments included developing an FSU technology provider database with over 200 entries, and compiling the reservoir engineering Design License application for Russian submission, (1993 to 1996)

## **EDUCATION, CERTIFICATIONS AND APPOINTMENTS**

Bachelor of Physics and Geology, Manchester University (1973)

Rice University, Jesse H. Jones Graduate School of Administration, the Management Program (1996)

Certified Safety Professional, CSP 31013 - Board of Certified Safety Professionals (2016)

Associate Safety Professional, ASP 24197 - Board of Certified Safety Professionals (2015)

The National Examination Board of Occupational Safety and Health, International General Certificate in Occupational Health and Safety passed with Distinction (2009)

LRQA OH & S Management Systems (OHSAS 18001:2007) Lead Auditor (2010)

Chairman of the International Oil and Gas Producers Association (IOGP) Geophysical HSSE Sub-committee (2008-2010)

Member of the IOGP Safety Committee (2008-2010)

Chairman of the Society of Exploration Geophysicists HSSE Committee (2013 - present)

Member of the Society of Petroleum Engineers HSSE-SR Advisory Committee (2015 - present)

## **MEMBERSHIPS**

Society of Exploration Geophysicists (SEG)

Society of Petroleum Engineers (SPE)



European Association of Geoscientists and Engineers (EAGE)

Institution of Occupational Safety and Health (IOSH)

American Society of Safety Engineers (ASSE)

## **INDUSTRY CONFERENCE PARTICIPATION AND PUBLICATIONS**

### *The "gold standard" for contractor safety management guidance*

Ian M. Threadgold, CSP (Threadgold Safety Management). Presented at the 2016 OSHA Oil & Gas Safety and Health Conference held in Houston, Texas, USA, November 29-30 2016.

### *Driving efficiencies in 'Oil & Gas' through a risk based and systematic approach to contractor HSE management*

John Blackhall (BP), Lisette Iverson (Statoil), Ian M. Threadgold (Threadgold Safety Management), Piet Van Dam (Shell) and Scott Bergeron (Kosmos Energy). Presented at the SPE International Conference and Exhibition on Health, Safety, Security, Environment and Social Responsibility held in Stavanger, Norway, 11-13 April 2016. Invited paper.

### *Competency Management Guidance for Geophysical Industry Personnel with HSE Responsibilities*

Ian M. Threadgold (Threadgold Safety Management), Stephen G. Hallows (Seitel) and Randy P. Ingram (ExxonMobil Exploration Company). Presented at the SPE International Conference and Exhibition on Health, Safety, Security, Environment and Social Responsibility held in Stavanger, Norway, 11-13 April 2016. SPE-179426.

### *Reflections from the past: a brief history of safety in seismic operations over the last century*

Ian M. Threadgold (Threadgold Safety Management). *The Leading Edge* Volume 34 No. 9, September 2015; Society of Exploration Geophysicists.

### *The Journey Continues: Sixty Years of Sharing Incident Information in the Geophysical Industry*

Ian M. Threadgold. Presented at the SPE International Conference on Health, Safety, and Environment held in Long Beach, California, USA, 17-19 March 2014. SPE-168305.

### *Improving safety performance in geophysical operations: one major operator's journey*

Ian M. Threadgold; T. Richard Seaborne; Neil Cave and David J. Harrison. *First Break* volume 31, June 2013; European Association of Geoscientists and Engineers.

### *Subcontractor Management: A Key Safety Issue in Geophysical Operations*

Ian M. Threadgold. Presented at the SPE International Conference on Health, Safety, and Environment in Oil and Gas Exploration and Production held in Perth, Australia, 11-13 September 2012. SPE-152274.

### *Safety Begins (and Ends) With Management*

Ian M. Threadgold. Presented at the SPE International Conference on Health, Safety, and Environment in Oil and Gas Exploration and Production held in Perth, Australia, 11-13 September 2012. SPE-156681.

### *Improving Safety Performance in Geophysical Operations: One Major Operator's Journey*



Ian M. Threadgold; T. Richard Seaborne; Neil Cave and David J. Harrison. Presented at the SPE International Conference on Health, Safety, and Environment in Oil and Gas Exploration and Production held in Perth, Australia, 11-13 September 2012. SPE-157183.

*Sharing High Potential Incident Information: a Geophysical Industry Best Practice*

Eelco Sixma and Ian M. Threadgold. Presented at the IADC Health, Safety, Environment and Training Conference and Exhibition held in Houston, Texas, 7-8 February 2012.

*Industry Collaboration is Key to Safer Operating Standards*

Ian Threadgold, Charles Jeffrey, Eelco Sixma and Danny Garcia; *First Break* volume 29, May 2011; European Association of Geoscientists and Engineers.

*Reducing the Risk of Low-Probability High-Consequence Events*

Ian Threadgold. Presented at the SPE Americas E&P Health, Safety, Security, & Environmental Conference held in Houston, Texas, 21-23 March 2011. SPE-141763.

*Working Together – Saving Lives*

Ian Threadgold, Charles Jeffrey, Eelco Sixma and Danny Garcia; Presented at the SPE International Conference on Health, Safety and Environment in Oil and Gas Exploration and Production held in Rio de Janeiro, Brazil, 12-14 April 2010. SPE-126808.

*WATS it take to image an oil field subsalt offshore Angola?*

E. Ekstrand, G. Hickman, R. Thomas, I. Threadgold, D. Harrison, A. Los, T. Summers, C. Regone and M. O'Brien; Published in *Petroleum Geology: From Mature Basins to New Frontiers - Proceedings of the 7th Petroleum Geology Conference*, by the Geological Society, January 2011, Vining, B.A. & Pickering, S.C. (Eds). *Petroleum Geology Conference series 2010*; v.7; p. 1013-1024. Doi: 10.1144/0071013.

*World Wide WATS: Optimizing Both the Cost and Data Quality*

Peter Napier, Ian M Threadgold, Per Gunnar Aas and David J Harrison. Expanded Abstracts from the October 2010 Society of Exploration Geophysicists Annual Conference in Denver, Colorado.

*WATS survey optimization in Angola for subsalt appraisal and development planning*

Eric Ekstrand, Graham Hickman, Rowland Thomas, Ian Threadgold, David Harrison, Andy Los, Tim Summers, Carl Regone, Mike O'Brien, Alfredo Cegna, Carlyn Klemm, Ted Manning, John Kaldy, Paul Foster, Susan LaDart, Elizabeth L'heureux (EAGE Sub-salt Imaging Workshop, Cairo, 2009).

*WATS it Take to Image an Oil Field Sub Salt Offshore Angola?*

Graham Hickman, Rowland Thomas, Ian Threadgold, David Harrison, Eric Ekstrand, Andy Los, Tim Summers, Carl Regone, and Mike O'Brien. Presented at 7<sup>th</sup> Petroleum Geology Conference, March 2009, London.

*Optimizing Source Repeatability in Wide Azimuth Surveys*

Damian A. Hite, Philip M. Fontana, Bill Slopey and Ian Threadgold; *World Oil* magazine, September 2008.

*WATS Up Next in Angola?*

Ian Threadgold, Graham Hickman, Eric Ekstrand, Rowland Thomas, Andy Los,



Tim Summers, Carl Regone, Scott Michell, and John Etgen. 2nd Regional Deep Water Offshore West Africa Exploration & Production Conference & Exhibition, October 2-6, 2007, Luanda, Angola.

*Optimizing Source Repeatability in Wide Azimuth Surveys*

Damian A. Hite, Philip M. Fontana, Bill Slopey and Ian Threadgold. Society of Exploration Geophysicists Expanded Abstracts 26, 46 (2007).

*Implementing a Wide Azimuth Towed Streamer Field Trial: The What, Why and Mostly How of WATS in Southern Green Canyon*

Ian M. Threadgold, Kristin Zembeck-England, Per Gunnar Aas, Philip M. Fontana, Damian Hite, and William E. Boone. Society of Exploration Geophysicists Expanded Abstracts 25, 290 (2006).

*Arresting Production Decline by Improving Seismic Data Quality*

Ian M. Threadgold & Norman C. Allegar. Oral paper presented at MOC 2002, April 9-11, 2002, Alexandria, Egypt.

*Unmasking the Subsurface: The Gulf of Suez Demultiple Project*

Norman C. Allegar, Ian M. Threadgold and Ken H. Matson. Poster paper presented at GEO2002, April 15-17, 2002, Bahrain.

*3D Multiple Elimination in the Gulf of Suez: Acquisition Design for Optimum Processing Results*

Ian M. Threadgold, Norman C. Allegar, Roald G. van Borselen, D.J. (Eric) Verschuur and Ken H. Matson. Oral paper presented at Cairo2002 AAPG/EPEX/SEG/EGS/EAGE Conference, Cairo, October 27-30, 2002.

*Fast-Track, Data-driven Interbed Multiple Removal: Application to the Gulf of Suez*

Roald Gunnar van Borselen, Grog Fookes, Ian M. Threadgold and Norman C. Allegar. Oral paper presented at Cairo2002 AAPG/EPEX/SEG/EGS/EAGE Conference, Cairo, October 27-30, 2002.

*The Challenge of Multiples - Demultiple Techniques on Data from the Gulf of Suez*

Chris Koeninger, Sayed Khalil, Ian Moore, Antony Salama, Ian M. Threadgold and Norman Allegar. Oral paper presented at Cairo2002 AAPG/EPEX/SEG/EGS/EAGE Conference, Cairo, October 27-30, 2002.

*Source Array Tests in the Gulf of Suez*

Ian Threadgold. SEG 1991 Research Workshop, Part I. Workshop 4: Seismic Acquisition Hardware and Methods. Bill Dragoset et al. The Leading Edge 11, 37 (1992)

*Sub-salt Imaging in the Gulf of Suez*

R. Zaki, H. McDowell, I. Threadgold and O. Oldfield, GUPCO. Published in Classic Petroleum Provinces, Geological Society Special Publication No. 50, 1990, J. Brookes (Ed).

## **OP-ED ARTICLES**

*3 areas of risk the oil and gas industry should monitor for as we emerge from the slump*

Ian M. Threadgold and Bonnie Milne-Andrews (Accumyn Consulting). Short article published in the Houston Business Journal, March 24-30, 2017. Also in March 28, 2017 Online Bizjournal.

*Take STEPS to improve your safety performance*



Ian M. Threadgold (Accumyn Consulting). Short article published in SHALE Oil & Gas Business Magazine, March/April 2017, p38.

*OSHA - Enforcer or your free safety coach?*

Ian M. Threadgold (Accumyn Consulting). Short article published in SHALE Oil & Gas Business Magazine, January/February 2017, p26.

*Beware of the inexperienced leading oil companies amid the slump*

Bonnie Milne-Andrews and Ian M. Threadgold (Accumyn Consulting). Short article published in the Houston Business Journal, October 21-27, 2016, Vol. 47, No. 24, p 42A. Also in November 23, 2016 Online Bizjournal.

*What the new worker safety policy means for managers*

Ian M. Threadgold (Accumyn Consulting). Short article published in the Houston Business Journal, April 1-7, 2016, Vol. 46, No. 47, p 22A. Also in April 15, 2016 Online Bizjournal.

*The U.S. oil and gas industry needs to get serious about safety: 3 lessons from the global energy industry*

Ian M. Threadgold (Accumyn Consulting). Short article published in BIZVOICE in the Houston Business Journal, September 18-24, 2015.

## **PATENTS**

Title: *Method of Wide Azimuth Seismic Acquisition*

Inventors: Regone, Carl; Michell, Scott; Etgen, John; Threadgold, Ian

US Patent Number: 7,391,673

Granted: June 24, 2008