

# Andrew W. Hill

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## **A Geoscientist with a world lead in Integrated Marine Geohazards Characterisation**

*Proven impact on:*

### **Safety, Operational Integrity, Performance, and Costs**

*Drilling Performance, Finding and Development Costs and Pace, Technological Innovation and Delivery, Corporate Reputation, Partner Influence, International Access, Process Change and Improvement, Learning and Development.*

**POSITION:** Marine Geohazards Technical Authority, S&ORA, bp

**EMPLOYED BY:** bp America

**EXPERIENCE:** Angola, Australia, Azerbaijan, Brazil, Canada (Newfoundland, Nova Scotia and Beaufort), China, Colombia, Denmark, Egypt, Eire, Ethiopia, The Gambia, India, Indonesia, Japan, Libya, Mauritania, Morocco, Mozambique, Namibia, Netherlands, Nigeria, Norway, Pakistan, Poland, Qatar, Russia, Senegal, South Korea, Sweden, Trinidad and Tobago, Turkey, UAE, UK, USA (entire L48 seaboard and Alaska), Uruguay, Venezuela, Vietnam, and Yemen.

### **CAREER:**

#### **2007-2023 Global / Segment Technical Authority Marine Geohazards, S&OR, bp Houston**

- Global oversight and assurance of Marine Geohazards technique to underpin safe delivery of BP business in drilling and field development across all aspects of acquisition, processing and data analysis, as part of BP's Safety and Operational Risk Assurance Division.
- Parallel oversight to BP's new global Offshore Wind business from initial opportunity screening onwards (2020 onwards).
- Advisor on staff recruitment and technical mentoring of all BP's Geohazards staff.
- Geophysics/Site Investigation lead on Macondo, Central Azeri incident, Valhall Overburden Integrity Investigation, and various overburden integrity responses.
- Author and owner of BP Marine Geohazards Engineering Technical Practice.
- **Adjunct Lecturer in Marine Geohazards, Texas A&M University, Galveston 2021 - Present**
- Chair IOGP Task Force to write Industry Marine Site Survey Guideline documents.
- Member IADC Deepwater Drilling Practices Guide Chapter Committee.
- Chair / Organiser Oceanology International Geophysics sessions, 2008-2024
- Founder and Chair Houston SUT Offshore Site Investigation and Geotechnics Committee
- Speaker at International Conferences and Author of multiple Technical Papers.

#### **2003-2007 Survey Manager, Geohazards Advisor, bp Baku**

- Manager of integrated Team supporting BP's interests in Azerbaijan and Turkey.
- Lead acquisition of first ever multi-streamer HR3D and AUV programmes in the Caspian.
- Management of Survey Support for facility and pipelines installation for ACG and Shah Deniz offshore developments.
- Develop and lead Shah Deniz Full-Field Development Geohazards data acquisition strategy.
- Contiguous delivery of step change in data quality and acquisition safety delivery.
- Ongoing expert review and guidance of international drilling and development projects: Deepwater Angola, Egypt (Nile Delta), Black Sea, Indonesia and Trinidad.

#### **2002-2003 Geohazards Advisor, Global Technical Network Leader, bp America, Houston**

- Technical Advisor for Geohazards to the BP global business.
- Member BP Global Drilling Policy review panel
- Member of two post blow-out accident investigation panels (UK and US).
- Technical review of global offshore exploration drilling and development projects.

- Lead BP Survey and Site Investigation Technical Network, responsible for global staff learning and development in these specialist areas.
- Write, publish, and roll out BP Offshore Site Investigation Manual (2002).

**1996-2002** **Geohazards Team Leader, GoM / Western Hemisphere, BP America, Houston**

- Develop integrated Geohazards characterisation team from nothing to being recognised as industry lead in GoM for all aspects of the Geohazards process: from acquisition planning, through permitting of wells, to field development planning.
- Identify and lead breakthrough introduction of AUV Technology to Deep Water industry leading to winning *2000 BP Global Innovation Award*.
- Direct geophysical site characterisation for Thunder Horse, Atlantis, Holstein, Mad Dog and Mardi Gras Projects: including BP's first HR3D surveys and first industry AUV surveys.
- Drive formation of industry GoM Geohazards Forum to improve industry standards.
- Instigate and lead, cross industry initiative to re-write MMS NTL governing Shallow Hazards. Write document.
- Develop global Site Investigation Network to closely align BP practitioners.
- Founder Houston Industry Geohazards "Geoforum" to improve and promote industry best practices.

**1992-1996** **Global Site Investigation Specialist, BP Exploration, Aberdeen, UK**

- Developed radical "*Blanket*" site survey approach for BP West of Shetland UK. Significant impact to exploration, development costs and drilling performance and pace.
- Global consultant to the BP offshore business and general industry consultant (Regulatory bodies, other Operators, and Industry Panels).
- Geophysical Lead Azeri-Chirag-Gunashli Geohazards Survey, AIOC, Azerbaijan.
- Geophysical Lead post blow-out studies and analysis, Lan Tay, Vietnam.
- Introduced satellite imagery techniques to marine seabed geomorphological analyses.
- Founding Chair of "*Western Frontiers Association*", joint industry research body studying potential geohazard problems in UKCS deep water.

**Operations Geophysicist (parallel role)**

- Plan and co-ordinate all VSP and borehole Gravity surveys, NW Europe.

**1988-1991** **High Resolution Seismic Specialist, BP Exploration, London and Glasgow, UK**

- Acquisition, processing and analysis of HR seismic data for the mapping of geohazards for exploration, appraisal and development projects, NW Europe. At peak planning and analysis of more than sixty projects a year.
- Assistant-author original UKOOA industry site survey guideline documents.

**1984-1988** **Lead Processing Geophysicist** exploration seismic data processing, **A/S Geoteam, Oslo, Norway**

- Lead company's successful market entry into exploration processing sector.
- Instigated and delivered novel speculative re-processing project of industry archive seismic data
- Supervisor HR seismic data processing and analysis

**1982-1984** **Geophysicist, Project Leader and Party Manager, Geoteam UK Ltd., Aberdeen, UK**

- Field data acquisition, processing, interpretation, reporting and client liaison.

**1981** **Seismic Field Observer, M/V Pacific Horizon, Horizon Exploration, Swanley, UK**

- Field data acquisition: data recording, equipment deployment, operations and maintenance.

**PERSONAL:** Motivational leader and team builder. Respected lecturer with excellent presentational and communication skills. Influencing and networking skills across: disciplines, business, global industry/academia. Personal mentoring, group training and alignment, and innovational vision. Fluent Norwegian, basic conversational French.

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**STATUS:** British citizen, Green Card holder, Married, three mature children

**QUALIFICATIONS:** M.Sc. Marine Geology & Geophysics, UCL, University of London  
B.Sc. (Hons.) Maritime Studies, UWIST, University of Wales, Cardiff

**PUBLICATIONS:** Numerous more than 60 papers, regularly invited keynote speaker and Chair at international conferences: Europe, the Americas and FSU.

**SOCIETIES:** **European Association of Geoscientists and Engineers:** Member  
**Society of Underwater Technology:** Fellow of Society, Chair Offshore Site Investigation Committee US & UK. Conference Organiser