



## CHERYL A. GROUNDS, P.E.

### Senior Principal Engineer

B.Sc. Fire Protection Engineering, University of Maryland

#### Areas of Practice

Cheryl Grounds is a member of BakerRisk's Process Safety Group. She has over thirty-seven years of experience in the oil, gas, and chemical industries providing service worldwide to corporations in the areas of hazard and risk management, fire protection engineering, and management of process safety. Ms. Grounds' experience includes upstream E&P, downstream manufacturing and distribution, and corporate management of process safety. She rejoined BakerRisk after retiring from BP, and resides in Houston, Texas.

#### Experience

- Advocated process safety across global corporations through provision of deep technical expertise, building capability, defining and embedding practices, and overseeing learning offers as related to the discipline.
- A successful communicator of the value of Process Safety Engineering, and instrumental in providing risk-informed pragmatic solutions for business challenges.
- Championed the inclusion of human factors in the Global Congress on Process Safety, led the development of a critical task analysis tool in BP, and currently serves as a CCPS team member developing a CCPS text on human factors.
- Performed numerous hazard analyses and consequence and risk analyses in support of capital project development and for understanding of existing facility risk. Specifically, these included HAZOPs, Facility Siting Analysis, and QRAs.
- Conducted numerous plant audits (process safety management, fire protection, risk mitigation) .
- Served on a number of incident investigation teams, including the Macondo Response team.
- Developed and implemented numerous policies, engineering practices, and procedures on topics including facility siting, risk management, fire and explosion hazard management, fire protection systems, HAZOP, LOPA, and ISD.
- Ms. Grounds has been actively involved in the American Institute of Chemical Engineers and the Center for Chemical Process Safety (CCPS) for many years. She has served on numerous committees, chaired the CCPS Conference at the Global Congress on Process Safety in April 2008, and chaired the Global Congress in March 2011.

#### Professional Chronology

Safety Engineer at Mobil Oil Corporation, Beaumont Refinery and U.S. Marketing (1983–1987); Loss Prevention Engineer and Skill Leader, Mobil Oil E&P and Mobil Technology Company (1987–1999); Engineering Section Lead, Marine Terminal, Civil, and Oil Spill Technology at ExxonMobil Research and Engineering (2000-2001); Principal Engineer at Baker Engineering and Risk Consultants (2001-2006); Process Safety Engineering Technical Authority at BP Upstream (2006-2009); Chief Engineer – Process & Process Safety, BP Upstream Engineering Centre (2009-2011); VP Process Safety, BP (2011-2017); Senior Principal Engineer at Baker Engineering and Risk Consultants, Inc. 2018-present.

#### Professional Registrations / Certifications

Registered Professional Engineer (Texas, No. 91358)  
AIChE Fellow  
CCPS Fellow, CCPS Certified, and CCPS Emeritus  
IChemE Chartered and Fellow

#### Professional Memberships

American Institute of Chemical Engineers (AIChE)  
Institute of Chemical Engineering (UK)



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Publications

- "Guidelines for Facility Siting and Layout", C. Grounds, J. Natale, Center for Chemical Process Safety ,2003
- "Facility Siting Analysis – Results Presented Using a Company’s Risk Protocol", C. Grounds, CCPS, 20<sup>th</sup> Annual International Conference, April 2005
- "Characteristics of Companies with Great Process Safety Performance", J. McCavit, S. Berger, C. Grounds, L. Nara, IChemE Hazards 24, Edinburg, UK, May 2014
- "Vision 20/20 – Delivering Great Process Safety Globally", C. Grounds, S. Berger, J. McCavit, Offshore Technology Conference, May 2015
- "A Day in the life of...", C. Grounds, Keynote presentations, IChemE Hazards Conference, May 2016 (presentation only)
- "Risk not Chance" videos, CCPS Project with UEF. 2017. (<https://www.youtube.com/watch?v=aN1HQI-RY7o>; <https://www.youtube.com/watch?v=GF0Np6xwW5s> ; <https://www.youtube.com/watch?v=F3JkVusZRmc>