



**In This Issue:**

President's  
Message

Meet Some of  
Your ABQ Area  
NM ASSP  
Chapter Officers

VP Article:  
"Off the Shelf"  
(Page 2)

ASSP NM Chapter  
Monthly Technical  
Meeting – April  
14th (Page 3)

NM Chapter PDC  
Planning (Page 3)



## President's Message:

Hello everyone!

I want to say thank you so much for allowing me to be your next president! I have been a member of the ASSP formerly the ASSE as far back as 2000 when we were meeting at Furr's Cafeteria on Central and San Pedro. At the time, I was an excavation contractor and built trench boxes, because I was tired of getting almost buried in trenches. I became most interested in safety when I was in the United States Air Force.

I am looking forward to working together as professionals to mentor our younger people through the sharing of our broad experiences. Additionally, I would like to thank the previous Executive Board for all their help in another successful year for our organization. I am excited to work with you as members and the Executive Board to make this year another success. This upcoming year, I would like to continue to focus on expanding our membership, Community Outreach and Professional

Development along with the other goals and ideas of our newly elected Executive Board.

It also wouldn't hurt to have a more diverse group. If you have ideas/ suggestions/gripes, please do not hesitate to send an email and/or call. Your voice and opinion matters. I am looking forward to a fun and exciting year where we can again meet together safely!

Bill White RSP, RSM, SHEP, CSHO, SSHO, CSHM

## Meet Some of Your Albuquerque Area New Mexico ASSP Chapter Officers!!



From left to right: Mario Hidalgo, Marc Evans, Jessica Bolduc, Bill White, Kelsey Forde, Tim Stirrup, and Gary Wright, taken during the ASSP Albuquerque Chapter Officer Induction Dinner (July 2021). Photo by Steve Allen



## An Article from Our Vice President:

### "Off the Shelf" of the System Safety Practitioner

*This series of periodic reference reviews will provide a summary and subsequent review of the references found on the shelf of the Author, a system safety practitioner with over 30 years of experience.*

### Guidelines for Hazard Evaluation Procedures, 3rd Ed; Center for Chemical Process Safety; Wiley 2008

The Guidelines for Hazard Evaluation Procedures (Guidelines) is the go-to resource for managing and performing hazards analysis. A college-level text book on the what, how, and when of hazard evaluations. The term "Redbook" for the Guidelines reflecting the red color of the book jacket.

#### Reference Summary

The Redbook is divided into two (2) parts – Part I Hazard Evaluation Procedures and Part II Worked Examples and Appendices. In addition to the two parts, the upfront information presented in the book is a great resource too. The upfront information presents a standard for abbreviations and acronyms as well as a standard definitions list in the glossary.

Part I Hazard Evaluation Procedures is presented with a preface, management overview, and nine (9) chapters. The preface provides an overview of the books contents including a figure relaying the interrelation of book chapters through the hazards analysis steps via a process flow chart. Together with the brief, two (2) page Management Overview section, Chapter 1 Introduction to the Guidelines presents a holistic overview for the system safety manager to understand the hazard analysis process from planning through completion. Most importantly, the Management Overview section lets managers know what to realistically expect from a hazard evaluation by discussing important limitations found in the most commonly used techniques.

Part I Hazard Evaluation Procedures chapters each present a step of the hazards analysis process – preparation, hazard identification, technique selection, adequacy of safeguards risk-based determinations, and analysis follow up. The heart of the Guidelines is Part I Chapter 4 Non-Scenario Based Hazard Evaluation Procedures and Part I Chapter 5 Scenario Based Hazard Evaluation Procedures. Between the two chapters there are four (4) non-scenario techniques and eight (8) scenario techniques which are presented commonly with the purpose, description, types of results, resource requirements, and analysis procedure for each technique. Each technique is illustrated with a brief example. Notably, hazard evaluation techniques include the traditional methods ~ What-If, What-If/Checklist, HazOp, FMEA, FTA/ETA, and CCA/BTA. While there are books dedicated to each of these techniques, the Redbook compares the good, the bad, and the ugly for each technique.

Chapter 6 Selection of Hazard Evaluation Techniques provides factors influencing the selection of hazard evaluation techniques. Chapter 6 lists selection criteria and provides a flowchart of questions to help choose an appropriate hazard evaluation technique.

Part I concludes with Chapter 9 Extensions and Special Applications discussing human factors, facility siting, and programmable control systems as well as potentially combining multiple techniques to derive a comprehensive set of safeguards. Of significant importance, the understanding of a *loss event* is presented as a key to deriving preventative and mitigative controls. Understanding a loss event is a fundamental aspect of performing hazards analysis and deriving controls.

Part II Worked Examples and Appendices provides the novice practitioner with realistic examples for performing hazards evaluations. Part II also provides the expert practitioner with worked examples to support the development of training.

And finally, the Redbook appendices provide useful tools and information including checklists, forms, drawing symbols, software aids, chemical compatibility, and organizations offering process safety resources – all of which I have flagged for easy reference.

#### Recommendation

The Redbook is a must have Invaluable resource for both the manager and practitioner of hazards analysis. The Redbook a usable reference resource for performing and assessing hazard evaluations. The book should be used as intended, a guideline for completion of hazard evaluations. For the practitioner, following the Redbook provides security and confidence that hazard evaluations can be performed consistently and accurately. Using the decision tree to determine which technique to use provides a level of understanding that can be repeated again and again. The Redbook fully supports the use of multiple techniques for evaluating hazards. Albeit for another discussion, I use the What-If/Checklist as a broad brush technique and then identify if the problem warrants a more robust technique.

Mark up the book. Flag important pages. Highlight the important words. Keep the book on a reachable shelf because you will use this reference again and again. I have multiple copies of the Redbook and have provided training to managers and practitioners on the value of the Redbook. We – Parvati Consulting LLC – often provide copies of the Redbook to our students and clients.

#### Author

Timothy S. Stirrup, ASP CHMM REM.

Mr. Stirrup has over 30 years of experience in system safety and accident analysis. He is a Principal EHS Professional with Parvati Consulting, LLC., a woman-owned, small business based out of Albuquerque, New Mexico. Tim is an active member of NMSHMM and NM ASSP.

*Disclaimer. The information and reviews presented as "Off the Shelf" are those of the Author and may not reflect the views of ASSP nor NMSHMM.*

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We're on the Web!

See us at:

<https://nm.assp.org/>  
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## ASSP NM Chapter Monthly Technical Meeting -- Thursday, April 14th

**Date:** April 14, 2022

**Time:** 12:00 pm to 1:00 pm

**Location:** Via Zoom (see login details at the end of this communication)

**Speaker:** Karen Nordquist, Manager of Contract Audit Department, Sandia National Labs

**Bio:** As the Contract Audit Department Manager, Karen leads a dynamic team of individuals responsible for the audit and settlement of contracts and subcontracts that support the mission of the Laboratories. She has been in this position since August 2018 with a passion for improving operations and fostering an environment of continuous education.

Karen's current role is a homecoming of sorts at Sandia- she began her career in the

Contract Audit department where she worked as a Contract Auditor and was the first person to fill the role of External Audit Liaison.

Prior to coming to Sandia, Karen worked in public accounting with Arthur Andersen & Co. amongst other accounting-related positions. She previously served on the Sandia Credit Union Board of Directors as a Chair, Vice-Chair, and Treasurer, and currently holds a CPA certification. She attended the University of New Mexico (UNM) where she received her Bachelor of Accounting Degree, then received her Masters of Accountancy from New Mexico State University.

### Zoom Meeting Details:

**Topic:** ASSP Technical Meeting – April 2022

**Time:** April 14, 2022 @ 12:00 PM Mountain Time (US and Canada)

Join Zoom Meeting

<https://us06web.zoom.us/j/86127791884?pwd=MHRiL0pDaWprcnBpUjR5aEN0OUdNZz09>

Meeting ID: 861 2779 1884  
 Passcode: 912041

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 +1 312 626 6799 US (Chicago)

Meeting ID: 861 2779 1884  
 Passcode: 912041

Find your local number:  
<https://us06web.zoom.us/j/kzKlP8izG>

## NM Chapter PDC Planning is Well Underway!

Be sure to keep a lookout for future notifications regarding our upcoming NM Area Chapter Professional Development Conference (PDC).

We are actively considering dates for the event and venues, as we hope to be returning to an in-person event!

Be thinking about presentation ideas – those you'd like to see or would consider giving yourself! We will be sending out an official call for speakers very soon.

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