

Juanita G. Miller, PE, CFEI

College of Engineering/New Mexico State University

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Education:

M.E. 2006 University of Texas at Arlington Civil/Environmental Engineering,

B.S. 1986 New Mexico State University, B.S. Chemical Engineering

Certifications and Awards:

Professional Engineer License, State of Texas (PE#102261), New Mexico (PE#22152)

Certified Fire and Explosion Investigator (CFEI NAFI #18789-10353)

OSHA Authorized General Industry Trainer (G 0060418)

FCC Amateur Radio Technician License (KD5PXN)

Member Technical Staff, Texas Instruments, 1996 – 2004

US Patents: (6,613,700), (5,646,068), (5,327,327), (5,225,037)

Work Experience:

1986-2004 Texas Instruments Inc. - Process engineer responsible for oversight of an R&D lab and two semiconductor manufacturing facility startups. Maintained chemical inventory, hazardous waste permits and served as safety coordinator for each department supported.

2004-2006 University of Texas at Arlington – Graduate student studies completing a Master's Degree in Civil Engineering with emphasis on environmental studies

2007-2011 CDM Smith – Project Engineer responsible for design of water and wastewater treatment systems. Served as safety coordinator for both Dallas and Fort Worth offices. Gained a Professional Engineer's License.

2011-2013 Air Liquide Electronics – Industrial Risk Manager responsible for hazard identification and risk analysis recommendations for cryogenic liquid production, hazardous chemical handling and research laboratories. Methods for risk analysis included What-If, Checklist, FMEA, HAZOP and Fault Tree.

2013-2015 Rally Engineering – Taught in-person classes for the UTA OSHA Training Institute in Machine Guarding, Lock-out/Tag-out. Gained OSHA Authorized General Industry Trainer certification. Also taught in-person and developed an online class in RCRA for the UTA Environmental Training Institute.

2015-Present New Mexico State University – College of Engineering Safety Specialist with responsibilities for lab oversight, chemical inventory, specialized safety training for departments and seminars in various safety topics for all students and staff. Also teach a credit class in Industrial Safety (CHME 448).

Publications:

"Buried Treasure", Miller, R. & Miller, J., Texas WET, Volume 26, Issue 5, 09/09

"Get 'Um While They're Young", Texas Water 2009

"Resources, Methods & Attitudes Needed to Prepare for the PE Exam", SWE National Convention 10/03

"Don't Leave Your Engineering Brain at Work" SWE National Convention, 10/02

"Industrial Safety Curriculum for Chemical Engineering" 2017 AIChE Annual Meeting (10/17)

"Experimental Safety Plan (ESP) for Safety Management in Chemical Engineering Research" 2017 AIChE Annual Meeting (10/17)