

Qualifications Summary

- Quantitative respirator fit testing using TSI Portacount
- Technical editing on a variety of engineering documents.
- Software QA testing on Radionuclide Viewer.
- Engineering calculations using Wolfram *Mathematica*.
- Website design and maintenance on several small sites.

CHERYL K. HAAKER ENGINEER

Fields of Competence

Respirator fit testing (quantitative) using TSI Portacount, developing documentation, proofreading, editing; graphics (Adobe *Illustrator*, *Excel*); software testing; programming (C, perl, shell scripts, Fortran, *Mathematica*); database design, administration, and support; website development (XHTML, CSS) and maintenance.

Credentials

B.S. Physics, Texas A&M University, 1975
B.S. Geophysics, Texas A&M University, 1975
M.S. Industrial Engineering, Texas A&M University, 1978
OSHA Course 2225: Respiratory Protection, Rocky Mountain Education Center, 2009

Employment History

2003-present AQ Safety, Inc., Albuquerque, NM
2007 & Eisenhower Middle School (Head coach for Track
2008 spring & Field program)
1993-2003 New Mexico Technet/Oso Grande Technologies
1978-2003 Sandia National Laboratories

Key Projects

Respirator Fit Testing. Conduct qualitative fit testing using a TSI Portacount, per 29CFR1910.134 for the LANL Omega West Decommissioning Project, Intera, the City of Española Water and Fire Departments, Environmental Dimensions, and others.

MACCS2 Dose Factor Files. Wrote *Mathematica* code to generate updated dose factor files for the NRC's MACCS2 computer code.

Graphics for FRMAC Manual. Created charts from Excel for FRMAC Manual RDD scenario.

Radionuclide Viewer Software Testing. Performed validation testing.

Technical Editing. Reviewed and proofread assorted ES&H plans, SSASP documents, Integrated Work Documents, FRMAC manual chapters, etc.; used Los Alamos JHA tool to input and maintain project requirements documentation.

Database design and administration. Created *Access* databases for local League of Women Voters; maintained and used IBM *DB2* database at Oso Grande Technologies; created System 2000 databases at Sandia.

System Administration. Installed a variety of computer systems at New Mexico Technet/Oso Grande Technologies; developed and maintained production software; supported software applications and web hosting; assisted customers; provided desktop support for internal network. At Sandia, set up and maintained a multi-host VMS system on the classified network.

Programming. Developed and maintained production software for the Internet Service Provider New Mexico Technet. Maintained and expanded custom billing software. At Sandia, maintained and developed analysis codes for weapons software.

Computer security. Interfaced between DOE security requirements and Laboratory system administrators; developed template security plans, checklists, and system test documents; hosted training and informational meetings.

Other Activities

Website design and maintenance. Designed websites for League of Women Voters of Albuquerque/Bernalillo County; Albuquerque Athletics Track, USA Track and Field - New Mexico Association (until 2005); the Rio Grande Marathon; Boy Scout Troop 97; (until 2006) the Eldorado High School running programs; and AQ Safety, Inc.

Coaching. Cross country coach for Albuquerque Athletics Track since 2003, Track & field for AAT since 2004; Head track & field coach for Eisenhower Middle School in 2007.

League of Women Voters. Technology Chair for Albuquerque/Bernalillo County, 2005 to present.

USA Track & Field. Secretary of New Mexico Association, 2004-2006. Web Chair, 2002-2005. Certified Level 1 Coach.