



Grainger Consulting, Inc.

*Fire Protection / Forensic Engineering * Code Consulting*

RESUME: SCOTT GRAINGER, PE - PRESIDENT – CHIEF ENGINEER

Education

BS Civil Engineering Colorado State University; Ft Collins, Colorado; 1971

Hazardous Materials 40 hour training, OSHA 1910.120, Hazardous waste operations and emergency response, 2000

Professional Registration

First Licensed 1977

	AZ	NV	NM	CO	NY	WA	VA	CA	UT	WY
FIRE PROTECTION ENGINEERING	*	*	*		*		*	*	*	*
CIVIL ENGINEERING (+ state had no FPE category)	*		*	* +		* +				

Professional Experience

- US Army, Military, 1971-1973. Fort Huachuca, AZ.
- Resident Engineer US Army Corps of Engineers, Tucson Resident Office, military and civil works.
- Owner and chief fire protection engineer of consulting engineering firm specializing in fire protection engineering design, evaluation, code analysis and forensics since 1985.
 - Forensic Engineering, Expert witness and failure analysis
 - Fire suppression systems
 - Fire alarm systems
 - Fire separations – walls, floors, doors, roofs
 - Firestopping / proofing
 - Pipe
 - Sprinkler Heads
 - Alternate means and methods preparation for alternatives to code compliance
 - Structural fireproofing system design
 - Design fire sprinkler and fire alarm systems
 - Review & application of various codes & standards & Preparation of variances (Equivalencies Performance Design)
 - Special Systems – design review, code analysis and field verification of special systems:
 - High Speed deluge, Halon Replacement Gas Systems
 - Hazardous Material storage/use/dispense
 - Flammable Liquids
 - Explosives
 - Toxics
 - Foam systems, AFFF & high expansion foams
 - Aircraft Hangers
 - Chemical Storage
 - Perfume Manufacturing
 - Fuel Storage and Dispense

Professional Activities

ASTM International - member 2005 to present

E30 Forensic Sciences Committee – member 2005 to present

E30.05 Engineering subcommittee – member 2005 to present

E05 Fire Standards Committee – member 2005 to present

E05.11 Fire Resistance subcommittee – member 2005 to present

AZ State Fire Code Committee Member 1988-1998

Chairman, 1994; Vice Chairman, 1992, 1993; UBC 38-1and Article 25 subcommittee's member

Article 79 rewrite subcommittee, 1991, 92, 93 Member

National Fire Protection Association – member 1985 to present

Member Warehouse Fire Problem subcommittee, 1988

Society of Fire Protection Engineers, Professional member 1988-present

AZ Chapter President, 1996 & 1997

International Membership Committee, Member '98 – present

International Publications Committee, Member, 2002 – 2006

Southern Nevada Chapter, Member 2004

Point of Contact for Order of the Engineer for SFPE

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American Society of Sanitary Engineers 1996 – present
Backflow Working Group 1997; 2002 - present
Cross Connection Protection Devices re-write committee chairman '99
Research Committee member, '00 to 2002
International Conference of Building Officials, Southern Arizona Chapter and Arizona Chapter, Member '88 - 2001
Adhoc Committee on smoke control, successful in rewriting Chapter 56 on covered Malls.
International Code Council (ICC) member 2001 – present
National Academy of Forensic Engineers, Senior Member, 2003 – present
Continuing Professional Development Committee, 2004 - present
International Association of Arson Investigators, Arizona Chapter
Member, 1999 -2004
Arizona State Board of Technical Registration, Enforcement Advisory Committee 1989-present
Phoenix Backflow Prevention Ordinance Study Committee member, 1993/94
City of Mesa AZ Building Board of Appeals member, '96 - '02.
City of Mesa Rehabilitation Code Development Committee, Member, 2001
AZ. Consulting Engineers Association , member '88 - 2003
Judge for the 1998 Technical Excellence Awards Competition
American Arbitration Association, Arbitrator, 1985 -'94
National Society Professional Engineers, Member '73 - present
AZ. Society Professional Engineers. 1973-Present
Cochise Chapter Secretary, President '73,'74
American Society Civil Engineers, member '71 - present
Order of the Engineer, Member '88 to present

Speaker

American Backflow Preventer Association. 1993 International Conference, Backflow on Fire Sprinkler systems
Society of Fire Protection Engineers. Backflow prevention program '91-'95
American Fire Sprinkler Association '96 Fall Convention – Backflow Prevention
American Society Plumbing Engineers '96 Fall Convention – Backflow Prevention
Arizona Society Professional Engineers '96 Convention - Ethics
International Assoc. Arson Investigators, '99 convention fire modeling
Grainger Consulting sponsored Training Programs (all certified by AIA for CEU's):

- Fire Sprinklers and the UBC
- Fire Suppression
- Hydraulic Calculations
- Smoke Control
- System Testing and Commissioning
- Fire Hydrant Flow Tests

Published

Drinking Water and Backflow Prevention; March 1993
Sprinkler Age; June '96
American Society of Plumbing Engineers, Technical Proceedings '96 ASPE Convention; Backflow Preventers on Class 1 & 2 Fire Protection Systems

Awards

Society of Fire Protection Engineers, Hats Off Award, 2005
National Society Professional Engineers, Engineers Week 2007 Outstanding Participation

Community Service

AZ Dept. of Education, Industrial Technological Education Advisory Committee, NAU 1997-1999, member, Special project – Review and comment Fire Science curriculum for high schools
Design of automatic fire sprinkler system for the **EVAC Center**, a nonprofit halfway house, Mesa, AZ
Sponsored annual awards for Fire Protection Engineering at the **SOUTHERN ARIZONA SCIENCE AND ENGINEERING FAIR** at the University of Arizona 1987 - 1996.
Judge for the **1998 FUTURE CITIES** competition, sponsored by AZ. Society Professional Engineers
Judge for the **ACEA 18th ANNUAL ENGINEERING EXCELLENCE AWARDS**
Judge International Science and Engineering Fair, 2005
Engineers Week speaker at Phoenix area schools, 2005, 2006, 2007