

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

DEAN PUTT Pyrotechnics Expert / Materials Scientist

PROFESSIONAL EXPERIENCE

2008 to **Robson Forensic, Inc.**

present *Associate*

Provide technical investigations, analysis, reports, and testimony towards the resolution of commercial and personal injury litigation involving pyrotechnics and materials such as plastics, paints, composites, foams and glass.

2004 to **Pyrotechnics Guild International**

present *Certified Safety Instructor*

Course contents include lectures and hands-on demonstrations covering safety, regulations NFPA 1123 2006 & NFPA 1126 2006, proper handling and ignition of fireworks. A typical class is comprised of authorities having jurisdiction (fire chiefs, police chiefs, municipal supervisors, etc.) and individuals taking their first steps towards becoming a lead shooter.

2002 to **Pyrotechnic Artists, Inc.**, New Kingstown, PA

present *Director, Display Coordinator*

Duties include securing liability insurance for fireworks displays and verifying that displays conform to NFPA regulations. There are over 100 members in the fireworks club promoting safety and artistry in fireworks displays.

1999 to **Fireworks Productions, Inc.**, Maryland Line, MD

present *Lead Shooter*

Authorized to perform public fireworks displays, have an experienced crew and hold a valid commercial driver's license with a hazardous materials endorsement. Experienced in manual and electric ignition; close proximity, computer-controlled choreography presentations and special effects including high explosives.

1988 to **Armstrong World Industries**, Lancaster, PA

present *Senior Scientist*

Research and product development of ceilings, cabinets, insulation and flooring.

Ceilings – Selecting antibacterial and antifungal additives for dried film paint preservation. Oversee preparation and submission of above specimens to accredited laboratories for ASTM D3273, D5590 and AATCC 147 evaluations. Developed acoustical paints and inventor of acoustic inorganic substrates of cement and plaster including alpha and beta gypsum.

Cabinets – Formulation and development of core materials (similar to particle board) for non load bearing panels in cabinets, doors for example. Evaluations include ASTM D1037-47 nail pull and E84 fire test.

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Insulation – Formulation and development of foamed rubber, polyurethane and phenolic foam insulation. Developed a method to produce Aerogel pellets. Co-inventor of fire-resistant, biodegradable insulation and low formaldehyde phenolic foam.

Flooring – Formulation and development of resilient flooring wear layers including acrylic, melamine and polyurethane construction. Co-inventor of a process to prepare vinyl laminate flooring via radio frequency pressing.

1977 to **Kerr**, Lancaster, PA
1988 *Associate Chemical Engineer*

Product development for packaging: closures, home canning lids and bottles

Closures – Development of 2-piece, tamper evident closure. Oversee program of CPSC protocol testing of child resistant closures.

Home canning – Development of PVC replacement for the original rubber gasket in home canning lids.

Bottles – Conducted accelerated aging and product compatibility testing with plastic containers. Conducted fracture analysis and product development of glass containers.

PROFESSIONAL CREDENTIALS

Certified Safety Instructor, Pyrotechnics Guild International (PGI Safety Certification is often accepted as proof of competency in states where a shooter's license is not required.)

EDUCATION

B.S., Chemistry, ACS accredited, Millersville University, 1994

Associate Chemical Engineering, Penn State University, 1977

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PROFESSIONAL MEMBERSHIPS

American Chemical Society
American Concrete Institute
Pyrotechnics Guild International
National Fireworks Association

PUBLICATIONS

Currently hold seven patents:

Davey, et al. "Polymeric sheet having an incompatible ink permanently bonded thereto", US Patent No. 5,162,141, November 10, 1992.

Hartranft, et al. "Thermal foam insulation", US Patent No. 5,457,136, October 10, 1995.

Hartman, et al. "Phenolic foams having a low formaldehyde evolution", US Patent No. 5,707,537, January 6, 1998.

Putt, et al. "Durable porous article of manufacture and a process to create same", US Patent No. 6,443,258, September 3, 2002.

Putt, et al. "Composite structure with foamed cementitious layer", US Patent No. 6,613,424, September 2, 2003.

Putt, et al. "Method for producing an inorganic foam structure for use as a durable acoustical panel", US Patent No. 6,780,356, August 24, 2004.

Putt, et al. "Acoustical panel having a honeycomb structure and method of making the same", US Patent No. 6,983,821, January 10, 2006.