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CURRICULUM VITAE

Richard W. Prugh
Senior Process Safety Specialist

Education

- Master of Science, Chemical Engineering, Stevens Institute of Technology
- Bachelor of Science, General Engineering, Massachusetts Institute of Technology
- Post-Graduate – U. of Pennsylvania, Drexel, Temple, U. of Delaware
- Quantitative Risk Assessment Analyst, Process Safety Institute

Affiliations

- American Institute of Chemical Engineers, Fellow, Safety and Health Division
- National Fire Protection Association

Registrations

- Professional Engineer, Chemical Engineering – New Jersey, Pennsylvania, Delaware, Maryland, California, Washington
- Professional Engineer, Fire Protection – Maryland
- Certified Safety Professional – Since 1980

Specialist Areas of Expertise

- Fire, Explosion, and Toxicity Hazard Assessment
- Vapor Cloud Explosion, Vessel Rupture, BLEVE, Barricade Evaluation
- Fire and Explosion Incident Investigation
- Fire and Explosion Prevention and Protection
- Inerting, Relief-Device Design, Explosion Venting
- Fire Protection Equipment Testing, Fire Brigade Drills, Fire Code Compliance
- Toxic Hazards Prevention and Protection
- Release-Source Evaluation, Dispersion Analysis, Inhalation Toxicology, Mitigation
- Qualitative and Quantitative Process Hazards Analysis
- Criteria for Unacceptability and Tolerability
- Gas and Vapor Flammability Hazards
- Thermal Stability Hazards
- Electrical Hazards Analysis – Static, Classification, Shock
- Safety Audits – OSHA, USEPA, NJ-TCPA
- Emergency Preparedness

Professional Experience

- Senior Process Safety Specialist, Chilworth Technology, Inc. Princeton, NJ
- Process Safety Consultant, Process Safety Engineering, Wilmington, DE
- Engineer and Consultant, Du Pont Company, Wilmington, DE

Mr. Prugh's recent experience includes service on the six-member Expert Panel that has been overseeing a Quantitative Risk Assessment of three nerve-gas destruction plants. Since 1985, he has provided full-time process safety engineering services to large and small chemical and petrochemical plants throughout the United States and in several foreign countries. During his career with the Du Pont Company, he was involved in instrument engineering, explosion-hazards testing, explosives manufacturing and testing, pilot-plant supervision, organic-chemicals research, safety and fire protection audits, and process-safety consulting.

Recent Presentations and Publications

- “The Effects of Explosive Blast on Structures and Personnel”, AICHe 32nd Loss Prevention Symposium; Process Safety Progress, 18 (1): 5 (Spring 1999).
- “Quantitative Evaluation of Hurricane Hazards”, AICHe Process Plant Safety Symposium (April 1996).
- “Quantitative Evaluation of Toxicity Hazards”, AICHe 29th Loss Prevention Symposium (August 1995).
- “Plant Safety” in Encyclopedia of Chemical Technology, 4th Ed., (1995).
- “Safety” in Encyclopedia of Polymer Powder Technology (1995).
- “Consequence Analysis – Environmental Effects – Vegetation Damage”, AICHe Process Plant Safety Symposium (March 1994).
- “Quantitative Evaluation of Fireball Hazards”, AICHe 27th Loss Prevention Symposium (April 1994); Process Safety Progress, 13 (2): 83 (April 1994).
- “Leak Size/Frequency Distributions”, AICHe Process Plant Safety Symposium (February 1992).
- “Improved F/N Graph Presentation and Criteria”, AICHe 25th Loss Prevention Symposium (August 1991); Journal of Loss Prevention, 5 (4): 239 (1992).

- “Process Safety Analysis” and “Vapor Cloud Mitigation”, International Workshop on Hazard Assessment (Madras, India); Journal of Loss Prevention, 5 (1): 3 and 5 (2): 67 (1992).
- “Quantitative HAZOP Analysis”, 6th International Symposium on Loss Prevention (Oslo) (June 1989).
- “Guidelines for Vapor Cloud Mitigation” [AIChE book] (1989).
- “Quantitative Evaluation of BLEVE Hazards”, 22nd Loss Prevention Symposium (March 1988); Journal of Fire Protection Engineers, 3 (1): 9 (January 1991); Chemical Engineering Progress, 87 (2): 66 (February 1991).
- “Evaluation of Unconfined Vapor Cloud Explosion Hazards”, International Conference on Vapor Cloud Modeling (1987).
- “Quantitative Risk Analysis”, International Congress on Hazardous Materials Management (1987).
- “An Overview of Mitigation Techniques”, Chemical Manufacturers Association Symposium (1986).
- “Plant Safety” in Encyclopedia of Chemical Technology, 3rd Ed., (1985).
- “Safety” in Encyclopedia of Polymer Science and Technology” (1984).
- “Quantitative Fire Hazards Analysis”, NFPA Fall Meeting (August 1984).
- “Fault Tree Analysis”, AIChE 14th Loss Prevention Symposium (1981); Chemical Engineering Progress, 76 (7): 59 (July 1980).