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# Society of Fire Protection Engineers

## New Jersey Chapter

# FUSIBLE LINK

FEBRUARY 2011

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## President's Message...

Our February meeting guest speaker will be our own John Cholin, P.E. who will brief on the status of NFPA 654, 664 and the effort by NFPA to develop a single comprehensive dust standard. John's presentations are always extremely informative so you don't want to miss this upcoming meeting. We are also in the final planning stages of our upcoming Spring Technical Seminar which will be held at our usual venue, the Ramada Plaza (formally the Holiday Inn), 160 Frontage Road, Newark, NJ near Newark Liberty Airport. The date is Friday April 15, 2011 so save the date and mark your calendars. We are planning to have a Trade Show along with our technical program. Flyers will be out shortly. Our nominations committee is looking for new Chapter Directors and Officers. We have an election coming up to be held during our June meeting. We will have a few vacant leadership positions which is an opportunity for members to get further involved in Chapter activities, planning and operation. I have been involved in the chapter for a number of years and can tell you from experience that it has been both interesting, rewarding and fulfilling to be part of a great portion of our profession. Think about becoming more involved in the Chapter. If I've peaked your interest let one of the Chapter officers know and we will fill you in on what the NJ Chapter is all about and what's in for you.

See you all at the February meeting.

Rich Reitberger  
Chapter President

<http://www.sfpe.org/Chapters/NewJersey.aspx>

[www.twitter.com/newjerseysfpe](http://www.twitter.com/newjerseysfpe)

<http://www.facebook.com/home.php?#!/pages/New-Jersey-Chapter-of-the-Society-of-Fire-Protection-Engineers-SFPE/230335010430?ref=search&sid=1603495530.128212107..1>

## NJ-SFPE January 3, 2011 Meeting Minutes

The Secretary's report for the December meeting was accepted unanimously as written in the Fusible Link.

The treasurers report was read and accepted unanimously. Paul McGrath invited all in attendance to his 18th Fire Facts Seminar at Seton Hall Friday, January 7. He extended the welcome to anyone wishing to attend at Princeton which was taking place on Wednesday the 5th.

Drew Slocum of Tyco Fire Suppression & Building Products was our presenter. His presentation was excellent and he covered Tyco's new Pressure Reducing Valve which is the only UL listed one, Tyco's dry systems for residences and their Raven institutional sprinkler systems.

David Goldstein was approved for membership as a Chapter Supporter.

The meeting was adjourned at about 8 pm.



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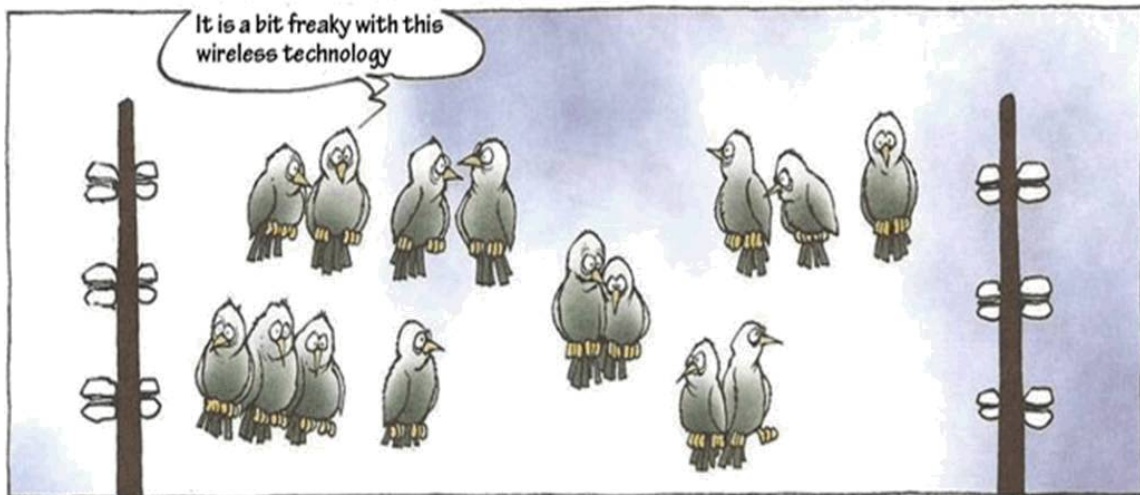
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## ROLE PROFILE

**General** (attach organization chart)

**Job Title:** Property Risk Manager  
**Job Grade:**  
**Country & Unit:** U.S. Novartis Corporation  
**Manager's Title:** Director Risk Management

**Job Purpose** (Briefly state in one sentence the overall objective of the role)

Reporting to the Director of Risk Management; the incumbent assists in the administration of Novartis property and transit programs, including the development and implementation of loss prevention best practices, executing site risk assessments and managing claims. In addition, the incumbent will be assigned overall general risk management responsibilities for certain business units.

**Major Accountabilities** (Describe the principal outcomes [5-7] of the role)

1. Lead and manage the US property loss control and engineering function.
2. Develop written risk engineering standards for US Novartis companies.
3. Collect and analyze US underwriting data for the property, business interruption, and freight insurance programs. Manage these insurance renewals.
4. Quantify MFL and NLE scenarios for sites and assist in site property risk improvement.
5. Provide guidance, assistance, training and reports to all Novartis business units on property, business interruption and freight.
6. Assigned point person for multiple Novartis companies to address all of their general risk management service needs including contract review and general support in their risk avoidance/ minimization efforts

**Key Performance Indicators** (associated with the Major Accountabilities)

**Job Dimensions** (Indicate key facts and figures)

**Number of associates:** Direct/Indirect = 0  
**Financial responsibility:** 0  
 (budget, cost, sales, etc.):

**Ideal Background** (State the preferred education and experience level)

**Minimum Education:** Bachelors in Engineering or industrial technology.  
**Minimum Experience:** 5 years in property loss control and engineering practices and general risk management skills  
**Languages:** English

**Ideal experience:** 10 years in property loss prevention and engineering practices with an insurance company, broker or large chemical/pharmaceutical company

5 years in overall general risk management practices in a manufacturing environment.  
 One or more professional designations (CFPS, SFPE, ARM, CRM)

**Competencies** (Describe the knowledge, skills and behaviors needed)

<b>Professional Competency</b>	<b>(e.g. Controlling, Treasury, Marketing Planning, Legal Counselling)</b>
Property Loss Control and Engineering Skills, General Risk Management Skills	
<p><b>Comments:</b> (Illustrate with specific examples)</p> <ol style="list-style-type: none"> <li>1. Experience in risk analysis, cost-benefit analysis and risk reward tradeoffs. Experience in resolving property loss prevention cost/benefit issues between business operations and insurance company engineers.</li> <li>2. Ability to communicate corporate property loss prevention programs and risk characteristics to insurance markets.</li> <li>3. Able to interface and support assigned business units for all of their general risk management service needs.</li> </ol>	

**Detailed Job Description—Property Risk Manager****Core Competencies Comments:**

Ability to be proactive in providing innovative and practical approaches to Risk Management issues.  
 Ability and desire to work effectively with all levels of customers and business partners, both internal and external.  
 Detail oriented with high degree of accuracy.  
 Excellent communication skills—oral and written, including technical and negotiation skills.  
 Highly developed interpersonal skills for dealing with sensitive situations and confidential information.  
 Ability to work on multiple priority tasks simultaneously under short deadlines.  
 High degree of self motivation requiring minimal supervision.  
 Committed to continuing education in the Risk Management and property loss prevention engineering area

**Purpose of Role**

Under the supervision of the Director of Risk Management, assist in the implementation of the Corporation's property engineering and loss control best practices, the freight insurance program, and high value freight protocols.

Assists with the management of the Company's Property and Freight insurance brokers and its Insurers to maintain productive relationships.

Develop and implement written best practices for property engineering and loss prevention in a manner which anticipates and minimizes risks to all US Novartis businesses.

Responsible for property risk management programs and processes, communication of programs to business units and departmental partners.

Provides leadership and management of the day-to-day general risk management activities received within the department for their assigned business units.

**1. Lead and manage the Novartis U.S. Risk Management/insurance function for property, business interruption and freight**

- Update and maintain department property/freight policies and procedures manuals.
- Responsible for monitoring compliance with insurance procedure and policies.
- Make sure all programs are compliant with regulatory and governmental obligations.
- Property and Freight Certificates of insurance and that entire process and set up—incoming and outgoing issuance and maintenance.
- Integrate acquired/divested businesses into Novartis' property/freight programs and introduce new operations to the Novartis guidelines.
- Assure that all required documentation is maintained according to records retention policy.
- Review third party manufacturing contracts for vendors and suppliers to ensure that all of insurance and indemnity requirements are being met.

- Review construction and real estate contracts for all insurance and indemnity requirements.
- Review distribution contracts such as shipping, warehouses for all insurance and indemnity requirements
- Work with all business units and various departmental partners to receive required computer reports and data in order to obtain underwriting information.
- Manage insurance programs submissions, including collection, analysis, preparation and review of underwriting information needed for renewal.
- Provide broker with information for existing and newly acquired locations, update broker annually for renewal and as changes occur.
- Assist in negotiations for coverage terms and conditions and program costs.
- Assist in managing brokers/insurers for service effectiveness and cost containment and their workings with individual business units.
- Manage outside property loss engineering consultant
- Analyze insurance policy terms, conditions and exclusions for gaps in coverage.
- Review and maintain high value freight shipment procedures for each Novartis company to ensure compliance with Insurer's and Corporate Security's requirements.
- Work with Novartis company supply chain/logistics functional areas to minimize risk.

**2. Develop and implement US property engineering and loss prevention best practices including the conduct of site risk assessments of all business units.**

- Create and issue Risk Management Property Loss Prevention Guidelines and Standards.
- Develop and implement sound corporate programs to prevent and control property losses.
- Develop and implement US property risk engineering standards.
- Perform site risk assessments quantifying business interruption risks and site audits to determine compliance with Risk Management property loss prevention guidelines and engineering standards.
- Monitor all US properties under risk quality program.
- Manage loss engineering recommendations and communicate through email for prompt responses from business units.
- Collect, review, comment and follow up on loss engineering reports and/or surveys.
- Provide technical support for all Novartis sites and projects especially new facilities, additions and renovations. Liaison with insurance company engineers and advise on compliance recommendations.
- Perform MFL/NLE surveys, Cargo surveys, insurance surveys, and CTE surveys.
- Participate as team member at business units' HSE risk profile compilation.
- Assist in property projects assigned to U.S. by Novartis AG.

**3. Responsible for providing general risk management services and managing issues relating to assigned business units:**

- Develop risk information requests and provide support for risk related projects.
- Assist in the preparation of periodic performance metrics reports.
- Collect and manage current and historical exposure information and key performance metrics.
- Provide assistance and training to Novartis US business unit personnel in adopting best risk management practices as well as understanding and working with Corporate insurance program.
- Consult with business units to understand their needs and objectives providing leadership and guidance.
- Collaborate with business units to assist in identifying trends in efforts to minimize risk.
- Partner with departmental such as HSE, supply chain, and security for overall corporate risk management.
- Responsible for the oversight and analysis associated with MyRisk database.
- Control and direct the entire process for ensuring insurance property and freight claims are properly submitted and paid while achieving timely and cost effective closure.



**U.S. CHEMICAL SAFETY BOARD***An independent federal agency investigating chemical accidents to protect workers, the public, and the environment.*

## **CSB Issues Report on 2008 Bayer CropScience Explosion: Finds Multiple Deficiencies Led to Runaway Chemical Reaction; Recommends State Create Chemical Plant Oversight Regulation**

Institute, West Virginia, January 20, 2011 – The U.S. Chemical Safety Board (CSB) today released its final report on the August 28, 2008, Bayer CropScience pesticide manufacturing unit explosion that killed two workers and injured eight others. In a report scheduled for Board consideration at a public meeting this evening in Institute, the CSB found multiple deficiencies during a lengthy startup process that resulted in a runaway chemical reaction inside a residue treater pressure vessel. The vessel ultimately over pressurized and exploded. The vessel careened into the methomyl pesticide manufacturing unit leaving a huge fireball in its wake.

The report found that had the trajectory of the exploding vessel taken it in a different direction, pieces of it could have impinged upon and possibly caused a release from piping at the top of a tank of highly toxic methyl isocyanate (MIC).



The accident occurred during the startup of the methomyl unit, following a lengthy period of maintenance. The CSB found the startup was begun prematurely, a result of pressures to resume production of the pesticides methomyl and Larvin, and took place before valve lineups, equipment checkouts, a pre-startup safety review, and computer calibration were complete. CSB investigators also found the company failed to perform a thorough Process Hazard Analysis, or PHA, as required by regulation.

This resulted in numerous critical omissions, including an overly complex Standard Operating Procedure (SOP) that was not reviewed and approved, incomplete operator training on a new computer control system, and inadequate control of process safeguards. A principal cause of the accident, the report states, was the intentional overriding of an interlock system that was designed to prevent adding methomyl process residue into the residue treater vessel before filling the vessel with clean solvent and heating it to the minimum safe operating temperature.

Furthermore, the investigation found that critical operating equipment and instruments were not installed before the restart, and were discovered to be missing after the startup began. Bayer's Methomyl-Larvin unit MIC gas monitoring system was not in service as the startup ensued, yet Bayer emergency personnel presumed it was functioning and claimed no MIC was released during the incident.

CSB Chairperson Dr. Rafael Moure-Eraso said, "The deaths of the workers as a result of this accident were all the more tragic because it could have been prevented had Bayer CropScience provided adequate training, and required a comprehensive pre-startup equipment checkout and strict conformance with appropriate startup procedures. This would have revealed multiple dangerous conditions and procedures that were occurring at a time when the company wanted to restart production of a key pesticide product. Startups are always a potentially hazardous operation, but to begin with computer control systems that have not been checked, while bypassing safety interlocks, is unacceptable."

The investigation report makes recommendations to the company and its Institute plant, to the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), and several West Virginia agencies. Citing a highly successful county program to ensure refinery and chemical plant safety in Contra Costa County, California, the CSB report recommends the West Virginia Department of Health and Human Resources establish a "Hazardous Chemical Release Prevention Program" that would have the authority to inspect and regulate such plants, and make public its ongoing findings.

Dr. Moure-Eraso said, "I believe a state and county-run program like this would go a long way to making chemical operations safer in places like the Kanawha Valley. OSHA and EPA, have limited resources and cannot be everywhere at once. However, local jurisdictions can put together highly effective and targeted inspection and enforcement programs, funded by levies on the plants themselves. The accident rate in Contra Costa County has dropped dramatically, and last year in fact they had no significant accidents, thanks, in my view, to this program."

CSB Investigations Manager John Vorderbrueggen noted that a major contributing factor to the accident was a series of equipment malfunctions that continually distracted operators. “Human factors played a big part in this accident, and the absence of enforced, workable standard operating procedures and adequate safety systems meant that mistakes could prove fatal. For example, operators were troubleshooting several equipment problems and during the startup, inadvertently failed to prefill the residue treater vessel with solvent. A safety interlock was designed to stop workers from introducing highly-reactive methomyl, but it was bypassed as had been done in previous operations with managers’ knowledge. Once the chemical reaction of the highly concentrated methomyl started, it could not be stopped, and the temperature and pressure inside rose rapidly, finally causing an explosion.”

Board Member John Bresland, who was CSB chairman at the time of the Bayer accident, noted the confusion that resulted in the community’s emergency response following the explosion at 10:33 p.m. “The Bayer fire brigade was at the scene in minutes, but Bayer management withheld information from the county emergency response agencies that were desperate for information about what happened, what chemicals were possibly involved,” Mr. Bresland said. “The Bayer incident commander, inside the plant, recommended a shelter in place; but this was never communicated to 911 operators. After an hour of being refused critical information, local authorities ordered a shelter-in-place, as a precaution.”

“Proper communication between companies and emergency responders during an accident is critical,” said Mr. Bresland, adding, “The community deserved better, especially considering the amounts of hazardous chemicals, in use and being stored at various chemical facilities in the Kanawha River valley.

The CSB report notes that two workers and four volunteer firefighters required examination for possible exposure to toxic chemicals.

The investigation examined the potential consequences of a hypothetical trajectory of the careening residue treater vessel that would result in its hitting the heavy steel mesh ballistic shield surrounding the above-ground MIC tank. The analysis – using blast pressure and impact energy calculations – concluded that the shield would have protected the MIC tank from a residue treater vessel hit. However, the CSB found, had the residue treater struck the shield structure near the top of the frame, the displaced frame could have contacted an MIC pipe, which might have resulted in an MIC release into the atmosphere.

Chairperson Moure-Eraso said, “Any significant MIC release into the atmosphere along the Kanawha valley could have proven deadly, and that concern has been legitimately expressed for decades in the community. This potential was reduced when Bayer announced last year it would no longer store MIC above ground; it will be reduced to zero in approximately 18 months when the company has announced it will end MIC production and use at the Institute facility – the only place in the country still storing large quantities of MIC.”

Dr. Moure-Eraso continued, “Bayer’s decision to end pesticide production using MIC was, I understand, done for its own business reasons. But for whatever reasons, the eventual elimination of this chemical will enhance safety in the Kanawha Valley, for workers and residents alike, and is a positive development in my view.”

The CSB public meeting is scheduled for 6:30 p.m. this evening at the West Virginia State University, Sullivan Hall, Wilson University Union, Multipurpose Room 143, in Institute. The Board will hear a full report on the investigation, and then will invite seven panelists including industry experts, community activists, and county government representatives to testify. Following a public comment period, the Board will vote on the report conclusions and recommendations.

The CSB is an independent federal agency charged with investigating industrial chemical accidents. The agency's board members are appointed by the president and confirmed by the Senate. CSB investigations look into all aspects of chemical accidents, including physical causes such as equipment failure as well as inadequacies in regulations, industry standards, and safety management systems.

The Board does not issue citations or fines but does make safety recommendations to plants, industry organizations, labor groups, and regulatory agencies such as OSHA and EPA. Visit our website, [www.csb.gov](http://www.csb.gov).

For more information, contact Acting Director of Public Affairs Hillary Cohen at 202.261.3601 cell 202.446.8094; or Sandy Gilmour, 202.261.7614, cell 202.251.5496.

## Meeting Dates/Programs 2010-2011

Feb. 7	Dust Update—Dust - Status of NFPA 654, 664 and the effort by NFPA to develop a single comprehensive dust standard— John Cholin
March 7	Insurance Industry Update
April 15	Joint Symposium/Seminar—International Codes and Standards
May 2	Green Power Hazards, FM speaker.
June 13	Annual Meeting—The Changing View of Protection for Data Centers.

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## MEETING NOTICE

**Date:** February 7, 2011

**Place:** Hanover Manor  
 16 Eagle Rock Avenue  
 East Hanover, NJ

**Price:** \$30.00

**Dinner:** 5:00-6:00 (Cash bar for mixed drinks)  
 Dinner at 6 PM

**Topic:** Dust Update—Dust - Status of NFPA 654, 664 and the effort by NFPA to develop a single comprehensive dust standard — John Cholin

**Please note for this meeting:**

All officers, directors and committee chairman are requested to attend a meeting at 4:00 p.m. at the Hanover Manor.

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PLEASE COMPLETE AND RETURN WITH YOUR CHECK PAYABLE TO "SFPE NJ CHAPTER" TO:

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## 2008-2009 CHAPTER COMMITTEES

### STANDING COMMITTEES

#### Program

Ed Armm, Chairman  
Consulting - Peter Rullo  
Richard Ravaoli  
Arrangements  
Vicki Serafin, Chairperson

#### Membership

John Cholin, Chairman

#### Nominating

Dave Gluckman, Chairman  
Glenn Dietz  
Chuck Gandy

#### Scholarship Fund

Chuck Gandy, Chairman  
Ed Armm  
Mike Machette  
Alternates: Rich Reitberger, Jim Tolos

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Joe Janiga, Chairman  
John Warnet

#### Archivist

Rich Reitberger, Chairman  
Nicole Smith

#### Historian

Jim Tolos

#### Communications

Fusible Link—Brad Hart  
Ana Crisostomo—Coordinator  
Mailing/Automation/e-mail—Vicki Serafin, Chairperson  
Website—Joe Janiga  
Facebook & Twitter Coordinator—Todd Vazquez

### SPECIAL COMMITTEES

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Jim Tolos, Chairman  
Joe Janiga - Co-Chairman

#### Career Recruitment

Al Dopart, Chairman  
Glenn Deitz  
Dave Gluckman  
Glen Buser

#### Golf Outing

Richard Reitberger, Chairman  
Joe Janiga

#### Awards

Rich Reitberger, Chairman

#### PE Examination

John Cholin, Chairman  
Joe Janiga  
Mike Newman  
Chuck Gandy

#### Chapter Seminar/Field Trip

Richard Reitberger, Chairman  
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Joe Janiga

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Rich Reitberger, Chairman  
Vinnie Fichera  
Jerry Naylis  
Dave Kurasz

#### Finance

Rich Reitberger - Chairman  
John Cholin  
Bob Murray

### HELPFUL LINKS

**ADAAG** <http://www.access-board.gov/adaag/about/index.htm>

**AFAA National** <http://www.affaa.org/>

**AFFSA** <http://www.firesprinkler.org/>

**ANSI** <http://web.ansi.org/>

**ASHRAE** <http://www.ashrae.org/>

**Campus-Firewatch** <http://www.campus-firewatch.com/>

**Coffee Break Training** <http://www.usfa.dhs.gov/nfa/coffee-break/>

**CPSC** <http://www.cpsc.gov/>

**CSAA** <http://www.csaaul.org/>

**Municipal Codes (E Codes)** <http://www.generalcode.com/Webcode2.html>

**FDNY** <http://nyc.gov/html/fdny/html/home2.shtml>

**FM Global** <http://www.fmglobal.com/>

**FSDANY** <http://www.fsdany.org/regs.htm>

**FSI** <http://www.firesprinklerinitiative.org/>

**FSSA** <http://www.fssa.net/>

**Fire Tech Productions—Nicet Training (FTP)** <http://www.firetech.com/>

**Home Fire Spklr Coalition** <http://www.homefiresprinkler.org/>

**HVAC Bld. Control Fire Safety** <http://www.iklimnet.com/hotelfires/hotelfiresmain.html>

**AFAA-NJ** <http://www.affaanj.org/>

**International Code Council -** <http://www.iccsafe.org/>

**International Code Council Residential Sprinkler Exam -** [http://www.iccsafe.org/news/nr/2009/0709\\_ResidentialSprinklerExam.pdf](http://www.iccsafe.org/news/nr/2009/0709_ResidentialSprinklerExam.pdf)

**The Joint Commission (JCAHO) -** <http://www.jointcommission.org/www.JointCommission.org/>

**Material safety data Sheets (MSDS-OSHA Site) -** <http://www.osha.gov/SLTC/hazardcommunications/index.html>

**National of Fire Equipment Distributors (NAFED) -** <http://www.nafed.org/index.cfm>

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