

# Protection

10<sup>TH</sup> ANNIVERSARY

UPDATE

ISEA

Setting the Standards for Safety Equipment

NEWS FROM THE INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION | OCT. 2010

By Joseph L. Walker  
Editor, *Protection Update*

The second issue of *Protection Update*, published back in January 2001, carried the first "Safety Equipment Works for You" column of real-life stories about people whose lives were saved or who avoided serious injuries by using various forms of safety equipment from ISEA member companies.

Since then, all except one of the 40 *Protection Updates* have carried this popular, back-cover feature. Altogether, we have told nearly 90 tales of safety equipment's life-protecting values. For this special 10th anniversary issue, we share the very best "Safety Equipment Works for You" stories from across the 10 years. We hope that you not only will find these tales to be interesting, but that they also will serve as a valuable tool in your safety training toolbox. You can access the full collection of "Safety Equipment Works for You" features on the International Safety Equipment Association web site, [www.safetyequipment.org](http://www.safetyequipment.org).

## THE VERY BEST OF SAFETY EQUIPMENT WORKS FOR YOU

the students shooting a solid stream of water...and moved to address the dangerous situation... At one point, the rookie turned his head to shout "Straighten the hose," and turned his entire body, including the high-powered stream directly into his instructor's cheek and left eye. "My eye swelled shut for several days," the instructor recalled. "It finally healed after several trips to the eye doc and a few

months of misery... My brain wouldn't have had a chance without those (safety spectacles). (Eyewear by Jackson Safety, a division of Kimberly-Clark Professional, [www.jacksonsafety.com](http://www.jacksonsafety.com).)

### ► Watch Out for Passing Trucks

Mary, who works for the Oklahoma Highway Department, was in a state truck when a passing tractor-trailer's mirror hit the one on her truck. Shattered glass burst into the cab of the state truck. But Mary was wearing safety glasses. Her doctors said that her eyes were well protected and that she could have lost her eyesight if not wearing the safety glasses. (Eyewear by H.L. Bouton Co., [www.hlbouton.com](http://www.hlbouton.com).)

### ► No 'Screw-Up' for this Landscaper

Keith Dennis' neighbor – a safety supervisor for Sarasota County, Fla. — knew that Dennis was a landscaper and gave him a pair safety glasses to try out. Dennis liked the fit and appearance of the new specs as well as the tinted lenses. Thankfully, Dennis had donned the safety eyewear before he used a string trimmer along a bank of concrete parking barriers. As he trimmed, the string picked up a screw resting at the bottom of one of the barriers and hurled it into his face. The force was so powerful that it knocked Keith off balance. Once he regained his composure, Dennis removed his safety eyewear and found

### Dear *Protection Update* Readers:

In November 2000, the International Safety Equipment Association (ISEA) began publication of a newsletter about personal protective equipment for the road construction industry. *Protection Update* was part of the ISEA's Partnership for Worker Protection, an industry program to build awareness of the importance of safety equipment for road, bridge and tunnel workers.

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## • EYE/FACE PROTECTION

### ► HVAC Technician's Sight Saved from Burst of Freon and Debris

Robert Moctezuma was completing a maintenance check of an HVAC system in Houston. While measuring the Freon levels in a condenser unit, Moctezuma immediately realized something was wrong. His pressure gauge read 325 pounds per square inch, which was significantly higher than normal. At that moment a hose leading to his gauge burst, sending Freon, dirt and debris flying into Moctezuma's face. "At first I didn't even realize what had happened," Moctezuma said. "I just wanted to get the Freon leak stopped. That's when I noticed something strange in my field of vision." He found a screw embedded point-first in the lens, with no metal reaching his eye. (Eyewear by Gateway Safety, [www.gateway-safety.com](http://www.gateway-safety.com).)



### ► Instructor's Sight Protected against Solid Water Stream

It was the first day of fire school at Texas A&M University. Before the first burn of the morning a fire instructor had told the students: "No solid streams! Solid streams take people's heads off!" Five minutes later, he noticed one of

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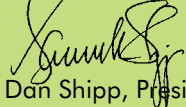
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That first issue included articles on PPE applications, information on innovative products and services from ISEA member companies, government developments and other events affecting safety equipment users, and reports on how safety equipment has saved lives, prevented injuries and provided bottom-line benefits. It was sent to a list of company and organizational contacts with responsibility for worker safety and health.

Now, 10 years later, *Protection Update* is aimed at all users of personal protective equipment. As part of *EHS Today* magazine, it reaches more than 85,000 readers each quarter, and thousands more readers around the world on *EHS Today.com*. Our partnership with Penton Media has enabled ISEA to greatly expand our audience, while remaining true to our founding principles: to educate and inform decision-makers about the personal protective equipment and technologies needed to keep workers safe and healthy.

To all the authors who've contributed to the newsletter, to the companies that design and make the products and technologies featured in these pages, and to all the people who are dedicated to the protection of working men and women, we offer a simple message: Thanks for reading. We look forward to another decade of *Protection Update*.

Yours truly,



Dan Shipp, President, International Safety Equipment Association

**SAFETY EQUIPMENT**

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**Protection Update**

is intended for anyone who specifies, purchases or uses personal protective equipment, and those who regulate it.

**Protection Update** is available via ISEA's website, [www.safetysite.org](http://www.safetysite.org).

1901 North Moore Street  
Arlington, VA  
22209-1762 USA  
Telephone: (703) 525-1695  
Fax: (703) 528-2148

Daniel K. Shipp, President  
[dshipp@safetysite.org](mailto:dshipp@safetysite.org)

Joseph L. Walker, Editor  
[jwalker@safetysite.org](mailto:jwalker@safetysite.org)



the screw tip embedded like an arrow point in the left lens. (Eyewear by Sperian Protection, [www.sperian.com](http://www.sperian.com).)

▶ **Sight for Sore Eyes**

Charles was using a die grinder to smooth a piece of metal. Unexpectedly, the wheel broke apart, hurling a large chunk of rubber at the surprised employee. The projectile crashed into Charlie's face and bounced off his prescription safety glasses. The force knocked the glasses askew, but the frame remained intact and the lens had only minor scratches... Charlie did sport a black eye for several weeks, but his vision was saved. (Eyewear by 3M Company Occupational Health and Safety, [www.3M.com](http://www.3M.com).)

▶ **Lens Protects Eye from Flying Nail**

Only two days after purchasing a pair of safety glasses because he liked the "design and mirror-blue" lenses, Bob was wearing the specs as he pulled a nail attached to a very taut string line. The nail shot straight toward his face, striking the spectacles' left lens. "Thank God I had your safety glasses on because I would have lost my left eye," Bob reported. (Eyewear by Mine Safety Appliances Co., [www.msanet.com](http://www.msanet.com).)

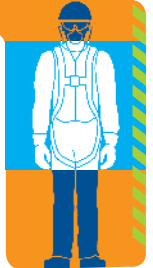
▶ **Shield Saves Face...and Possibly Life**

Todd Adams of Toronto, Ontario, Canada, wrote: I would just like to say thank you to your company for your face shield. Four weeks ago, I had an accident in my shop in which a piece I was working on exploded and hit me in the face. The piece had enough force to penetrate the one-half-inch drywall above my head. I also was wearing eye protection and a dust mask. Although I did have to get several stitches inside and out of my mouth, the injury was relatively minor compared to what could have happened... Again, I would like to thank your company for building a good quality product. (Face shield by Sellstrom, [www.sellstrom.com](http://www.sellstrom.com).)

● **FALL PROTECTION**

▶ **Fall Protection 'What-If' Plan Credited with Saving Worker's Life**

Good fall protection plans include "what-if" scenarios. In rural Iowa, a wind turbine worker's leg was crushed when the turbine shifted during routine maintenance. The worker



was trapped nearly 300 feet in the air when his co-workers requested aid and began extricating him. Without the proper fall protection, the rescuers would not have been able to reach the worker. Their equipment, kept on hand for "what-if" situations, enabled them to get into position, attach the worker to a self-evacuation system and lower him to the ground even before paramedics arrived. (Fall protection, including self-evacuation system, by Capital Safety, [www.capitalsafety.com](http://www.capitalsafety.com).)

▶ **Worker Loses Balance; Fall Protection Catches Him**

Scott was working on a truss at the still-under-construction Dallas Cowboy Stadium in Arlington, Texas, when a large clamp slipped off of a brace and smashed into his head. While he was wearing a hard hat, the force of the blow still knocked him unconscious off the truss, leaving him hanging underneath. Other ironworkers pulled him up, and he was taken to the hospital for an injury to his head. If he had not been wearing his personal protection and tied off, he would have fallen over 40 feet to the ground. (Fall protection by Elk River, [www.elkriver.com](http://www.elkriver.com).)

### ► Unlike Cat, Falling Worker Needs Protection to 'Land on Feet'

Readying to repair a barrel roof with a steep slope, Rogelio donned a stretchable full-body harness and tied off to a roof anchor system that included a mounting assembly with a rope grab, lifeline and shock-absorbing lanyard. Rogelio stepped on a board that slipped out of place, and he lost his footing. He fell and slid off the edge of the roof, but his fall protection arrested the descent. Fellow employees grabbed his deployed lanyard and assisted Rogelio back up onto the roof — uninjured. (Miller® fall protection by Sperian Protection, [www.sperian.com](http://www.sperian.com).)

## • HAND PROTECTION

### ► Glove Saves Hand from Snowplow Blades

"I was unloading snow plow blades when a bundle slipped and dropped on my right hand," recounted warehouseman George Kingsley. "The blades weight 60 pounds each, and there are 10 in a bundle." When the glove was cut off, the doctor was amazed to find Kingsley's fingers still attached and no broken bones, telling the fortunate worker that his glove took most of the damage. "We sometimes take our hands for granted," Kingsley said. "That is until something like this occurs. As it is, I still have the use of all my fingers and will have full use of that hand within a few weeks." (Hand protection from MCR Safety, [www.mcrcsafety.com](http://www.mcrcsafety.com), which honored Kingsley with its "MCR Safety Quality of Life Award.")



## • HEAD PROTECTION

### ► Mom Offers Thanks for Hardhat that Saved Son

"I want to inform you that your...hardhat saved my son's life," wrote Barbara Berard of Spearfish, S.D. "He fell through a sub-floor at a construction site and landed on his head. His hat stayed on and without that protection the neurosurgeon said he would have died. My son, Tony Trujillo, was found unconscious and not breathing. He spent a week in the hospital with a concussion and skull and facial fractures." Trujillo



returned to work after a month-and-a-half recuperation with no further head problems. "Thanks to your great effort to make a superb product, he is alive, and I am very grateful to all of you," Ms. Berard said. (Head protection by Mine Safety Appliances Co., [www.msanet.org](http://www.msanet.org); MSA sent Trujillo a new helmet and a "Gold Helmet Award," which the company confers on workers whose lives are saved through the use of head protection.)

### ► He'll Never be Known as the Bird Brain of Homer

Every winter, hundreds of bald eagles gorge themselves on fishing scraps from the docks on Homer (Alaska) Spit, which juts out more than four miles into Kachemak Bay. Kurt Marquardt was on a crew constructing a 15,000-square-foot addition to a resort at the tip of the spit. He was standing on the third-floor joists about 30 feet above the beach when a bald eagle swooped out of the sky and smacked into his head and then his forearm. Bald eagles are huge birds — weighing up to 12 pounds with wingspans of up to seven feet. "At first, I didn't know what hit me," Marquardt said. "I managed to stay on my feet and saw the eagle falling between the floor joists, and bouncing off the second floor deck. I assumed the eagle was a goner, but it proceeded to flap its way down 100 feet of hallway and fly off at the stairwell opening." Thanks to his hard hat, Marquardt suffered no head injuries; the eagle gouged the hat, but not his head. (Head protection by Bullard, [www.bullard.com](http://www.bullard.com); Bullard's Turtle Club recognizes workers whose lives have been saved through the use of head protection.)

### ► Your Hardhat Saved My Life

"Your hardhat saved my life," wrote Kevin Burgess of Rockville, R.I. Burgess was working in a boiler on the first floor of a power plant when a worker four floors above (60-65 feet) dropped a 25-pound, eight-foot tube shield, hitting him squarely on top of the head and directly in the middle of his hard hat. "The force sent me to the grates, knocking me unconscious for 5 to 10 minutes," Burgess recalled. "I was taken to the hospital where a CT scan of my head was done and X-rays of my neck. Everything showed to be OK except sore muscles and headache for a few weeks. If hit inches either way I surely would have been ►34

## Stay on Top of PPE Developments with ISEA's 'Safety Signals' Blog



You can stay abreast of the latest developments in the world of personal protective equipment by checking out the International Safety Equipment Association's (ISEA's) new blog at [www.SafetySignals.org](http://www.SafetySignals.org).

There you will find information and opinion about personal protective technologies and markets, standards, government affairs involving PPE, ISEA and its members.

"New articles are posted all the time, and readers can add their own comments and observations," said ISEA President Dan Shipp. "You can subscribe through RSS and be notified any time there is a new article."

If you are a member of the LinkedIn community and want to join the ISEA LinkedIn network, you will also find that link on the blog, Shipp added.

## SPOTLIGHT ON...

**International  
Enviroguard  
headquarters in  
Mesquite, Texas.**



## International Enviroguard

World-class Customer Service, Global Sourcing,  
Cutting-Edge Technology

Our primary markets are the industrial and lab science markets and we serve these markets through the market-leading distributors.

### Can you give us some background information on International Enviroguard, please?

Our company was founded in 1995 and we are located in the Dallas suburb of Mesquite, Texas. We design and market protective clothing (primarily disposable), floor coverings, and personal cooling products. Customers can visit our website at [www.int-enviroguard.com](http://www.int-enviroguard.com), or contact us at [info@int-enviroguard.com](mailto:info@int-enviroguard.com) or 800-345-5972 for more information.

### What is International Enviroguard's history?

We started out selling spill-containment equipment and branched out to disposable protective clothing. We have manufactured many private label disposable garments for many of the largest sellers of disposable garments in the industry. For the past four years we been focused on building our brand identity, developing new technology (3 patents issued or pending), and increasing our distributor base in several different markets that include the industrial, abatement, remediation, municipal, health care, and critical environments markets. Our main goal is to try to mitigate heat stress that is inherent in current disposable protective clothing today.

### How would you describe International Enviroguard's mission?

Our mission is to provide world-class customer service, global sourcing, and cutting-edge new technology for disposable apparel across all aspects of hazards that exist in the workplace.

### What are International Enviroguard's primary markets and how do you strive to meet their needs?

We have added Western and Eastern U.S. sales directors who manage about 25 independent manufacturer sales representatives in the United States and Puerto Rico. We have doubled our size since 2006.

### Why should someone who needs safety equipment obtain it from International Enviroguard?

We have several new technologies that are unique to us that offer better protection while mitigating potential heat stress. We are very responsive and we have been told that we get problems solved and questions answered faster than anybody.

### What are International Enviroguard's offerings that provide unique performance characteristics not found elsewhere?

Our new patent-pending BodyFilter 95+™ offers true comfort allowing air flow while protecting workers from dangerous and noxious particulates with 99 percent efficiency down to 0.3 microns. Many shipyards and U.S. government ship facilities have standardized on this product because of the increased comfort and better protection. Our new Chem-Splash™ product offers chemical protection while mitigating heat stress through moisture vapor transmission, and is being used at oil spill sites in the Gulf of Mexico. We use generous sizing in our garments that exceeds the American National Standards Institute sizing standard, and helps eliminate potential rip-outs, while offering more employee comfort. Most of the time workers who use a competitive product can down-size one size when using our garments, which saves money.

We have brought the same mission — increasing comfort through heat-stress mitigation while increasing protection — and new technology to the Critical Environment ▶33



**International Enviroguard specializes in protective garments that alleviate heat stress**

Editor's note: "Spotlight on..." is a feature that each issue highlights an ISEA member company that is working hard to ensure that workers are protected by world-class safety equipment. Answers to questions about International Enviroguard were provided by Brian Lyons, vice president sales & marketing."

# ISEA + MSA

Partners in safety



At the end of the day, it's good to know you're covered.  
MSA, protecting worker health and safety since 1914.

**MSA**  
The Safety Company

## ISEA SETS THE STANDARDS

### ISEA Highlights New Technologies for Fall Protection

International Safety Equipment Association

(ISEA) comments on the U.S. Occupational Safety and Health Administration's (OSHA's) proposed walking-working surfaces rule focus on ensuring that the final rule reflects information on the latest technologies for protecting workers at height.

OSHA's proposal would add a section on fall protection to the personal protective equipment (PPE) standards in 29 CFR 1019 (PPE for General Industry) Subpart I, as well as revising the walking-working surfaces rule Subpart D, and bringing the general industry regulations into line with similar rules for construction and maritime workers. The current OSHA rules for fall protection date back to the origin of the agency in 1971. OSHA initially proposed to revise the fall protection rules in 1990, and the current proposal is a culmination of that process.

ISEA told OSHA that the latest life-saving technologies that should be recognized in the updated rule include:

- Fall-arrest systems for rolling stock and vehicles, including portable overhead rail in various configurations and cantilever rotating davit with rail. These overhead systems protect workers involved with tasks atop train/rail, military vehicles, large trucks, aircraft and so forth.

- Tie-back lanyards that are specifically designed to be wrapped around a suitable anchor structure, such as a beam. These products eliminate a separate component for anchorage connection.

- Twin-leg or Y-lanyards or twin-leg self-retracting lifelines (SRLs) for ladder climbing. These lanyards and SRLs with two tie-off lines are designed to keep the

worker continuously connected when moving from one anchor point to another (for example from a lower point to a higher one).

- Roof anchors. Once roof joists are in place and stable, workers can tie off personal fall-arrest systems to the roof structure.
- Temporary suspension relief (TSR) devices, which delay or prevent the onset of orthostatic intolerance, a serious health risk that can result from prolonged suspension in a full-body harness. The beginning can occur within a few minutes for a suspended worker. TSR devices permit a conscious worker to maintain circulation in the large muscles of the legs, reducing the potential for suspension trauma until help arrives.

In the coming months, OSHA plans to hold hearings on the proposed walking-working surfaces rule in which ISEA and its member companies will participate.

For more information on new fall protection technologies contact ISEA's Cristine Fargo, director of member and technical services, [cfargo@safetysafetyequipment.org](mailto:cfargo@safetysafetyequipment.org), or any ISEA fall protection manufacturer listed in the "Buyer's Guide" at [www.safetysafetyequipment.org](http://www.safetysafetyequipment.org). Find ISEA's full comments on the walking-working surfaces rule in the Web site's "ISEA News" section. For more information about the rulemaking, contact ISEA Public Affairs Director Dan Glucksman, [dglucksman@safetysafetyequipment.org](mailto:dglucksman@safetysafetyequipment.org). ■



Images depict examples of new-technology fall-arrest systems for rolling stock (courtesy of Capital Safety Group)

### Look for Fall Protection from ISEA Members

Protection Update readers are encouraged to specify fall protection from the following ISEA members:

- **3M Company**, [www.3M.com](http://www.3M.com)
- **Buckingham Manufacturing Company**, [www.buckinghammfg.com](http://www.buckinghammfg.com)
- **Capital Safety Group**, [www.capitalsafety.us](http://www.capitalsafety.us)
- **Elk River, Inc.**, [www.elkriver.com](http://www.elkriver.com)
- **Honeywell Safety Products**, [www.northsafety.com](http://www.northsafety.com)
- **J.E. Lortie Company**, [www.jelco.ca](http://www.jelco.ca)
- **Klein Tools, Inc.**, [www.kleintools.com](http://www.kleintools.com)
- **Mine Safety Appliances Company**, [www.msanet.com](http://www.msanet.com)
- **Murdock Webbing**, [www.murdockwebbing.com](http://www.murdockwebbing.com)
- **Narricot Industries**, [www.narricot.com](http://www.narricot.com)
- **Sellstrom Manufacturing Company**, [www.sellstrom.com](http://www.sellstrom.com)
- **Sperian Protection**, [www.sperian.com](http://www.sperian.com)





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Protection you can trust

# MAKING WORKERS SAFER AROUND THE NATION



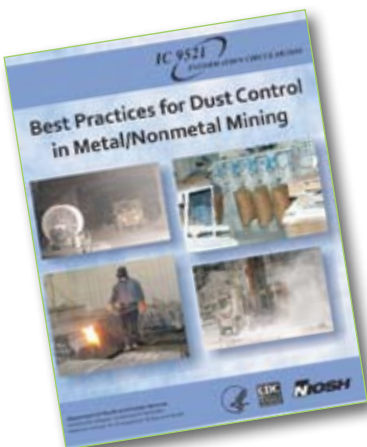
Screen from Speria's HearForever™ blog



Preventing Exposures to Bloodborne Pathogens Among Paramedics from NIOSH



OSHA's online Spanish language resource on respirator use.



Handbook on dust control in mining by NIOSH

The following new services and innovations have been introduced by **International Safety Equipment Association** member companies to help make workers safer:

- From **Kimberly-Clark Professional** – [www.kcprofessional.com](http://www.kcprofessional.com) – come results from a survey showing that U.S. workers are risking injury by not wearing required safety equipment. Ninety-eight percent of respondents answered “yes” when asked if they had observed workers not wearing safety equipment when they should have been, according to the survey, which was conducted at the American Society of Safety Engineers conference in Baltimore.

- New from **Howard Leigh®/Sperian Protection** – [www.sperian.com](http://www.sperian.com) – are:
  - Expanded social media outreach, including a new blog and YouTube channel that covers a variety of topics about hearing conservation, protection, and safety. These materials further expand the HearForever™ initiative aimed at raising awareness of the risks and dangers of noise-induced hearing loss. Follow the new blog at <http://hearforever.org/blogs>.
  - A “white paper” to help hearing conservation and occupational safety professionals better understand the hybrid push-in style of ear plugs that combine the use of foam for comfort with an insertion stem for ease of use. The paper, “Hybrid Push-In Style Earplugs: Factors that Contribute to a Proper Fit and Long-Term Comfort,” is available for free download at <http://www.hearforever.org/hybridearplug>.

**U.S. Occupational Safety and Health Administration (OSHA)** – [www.osha.gov](http://www.osha.gov) – has updated its Respiratory Protection Safety and Health Topics page with direct links to Spanish translations of two documents on respirator use. The “Medical Evaluation Questionnaire” and “Information for Employees Using Respirators When Not Required Under Standard” are included in Appendices C and D of OSHA’s respiratory protection standard.

The new links make it easier to find the Spanish-language versions of “Cuestionario de Evaluación Médico obligado por la OSHA” and “Información Para los Empleados Que Usan los Respiradores Cuando No lo Exige el Reglamento o Norma.”

In other actions to enhance worker safety, OSHA has:

- Established a new dedicated Web address for its whistleblower protection program – [www.whistleblowers.gov](http://www.whistleblowers.gov) – that provides workers with easily accessible information about how to “blow the whistle” on unlawful practices in the workplace, including employers who cut corners on safety and health.
- Cracked down on workplace safety scoff-laws through a “Severe Violators Enforcement Program.” The program targets recalcitrant employers who committed violations in a fatality or catastrophic situation or exposed workers to severe hazards, such as the potential release of highly hazardous chemicals.

**The National Institute for Occupational Safety and Health (NIOSH)** – [www.cdc.gov/niosh](http://www.cdc.gov/niosh) – has issued two documents to enhance first-responder safety. An alert outlines several risk-management strategies for preventing firefighter deaths and injuries in fires at unoccupied structures, while a workplace solutions document, *Preventing Exposures to Bloodborne Pathogens Among Paramedics*, provides practical recommendations aimed at protecting first responders.

According to the alert for firefighters, abandoned or vacant structures pose unique risks because firefighters are likely to encounter unexpected and unsafe conditions, such as dilapidation, decay, damage from previous fires and vandals, and uncertain occupancy status.

**Other new NIOSH communications products include:**

- Handbook that identifies available engineering controls that can assist underground and surface metal/nonmetal mining operations in reducing worker exposure to respirable dust.
- Fact sheets in Spanish that offer information on protecting workers from outdoor safety and health risks. Topics include heat stress, cold stress, sun exposure, stinging insects, poisonous plants, and ticks and mosquitoes.
- Recommendations for measures to protect veterinary workers who may be exposed to antineoplastic and other hazardous drugs used to treat animals.

**U.S. Chemical Safety and Hazard Investigation Board** – [www.csb.gov](http://www.csb.gov) – has released a 14-minute safety video warning of the hazards of welding and other

hot-work activities in and around storage tanks containing flammable materials. Entitled "Dangers of Hot Work," the video presents key lessons from the CSB's hot work safety bulletin, which was released in March. Hot work is defined as burning, welding or similar spark-producing operations that can ignite fires or explosions.

### The U.S Mine Safety and Health Administration

(MSHA) – [www.msha.gov](http://www.msha.gov) – has issued a guide on guarding conveyor belts at metal and nonmetal mines. The document provides compliance information on guarding standards and shows pictures of safe guarding.

MSHA also has released three program information bulletins (PIBs), including one that contains guidance on fall protection at river loading facilities for coal. The fall protection PIB provides recommendations on safety belts and lines and lifejackets when persons are working on barges where coal is handled or loaded. The others focus on (1) safety precautions for operating rubber-tired and track-mounted excavators used at surface coal, metal and nonmetal mines, and (2) diesel particulate matter in underground coal mines.

### The American College of Occupational and Environmental Medicine's Journal of Occupational and Environmental Medicine

(August 2010) – [www.acoem.org](http://www.acoem.org) – reports that consistent use of respiratory protective equipment by firefighters, especially during the "overhaul" stage of fire suppression, could reduce their exposure to high levels of ultrafine particles.

New from the **National Safety Council** – [www.nsc.org](http://www.nsc.org) – are several reports documenting the most critical elements organizations need to achieve safety excellence. The reports detail findings from a series of presentations and panel discussions involving business executives and safety and health leaders, sponsored by NSC. The reports (1) identify corporate leadership as one of the most critical elements in creating a culture that values safety; (2) document a significant return on investment in safety, and (3) stress the role of the CEO in achieving safety excellence.

The NSC also has released a new policy statement on

## INTERNATIONAL ENVIROGUARD

from page 28

Market. This market comprises both sterile and non-sterile clean rooms that protect the product from worker-generated contamination. We have filed patents on a new breathable garment called GammaGuard™ that can be gamma irradiated with sterility assurance at 10 to the -6. We have a range of apparel from hoods, coveralls, frocks, sleeve covers and foot coverings for this market. And our new ViroGuard™ is breathable, but offers protection against blood (ASTM 1670) and bloodborne pathogens (ASTM 1671). We also are a major supplier to the nuclear market, manufac-

## Order Complete Set of ANSI/ISEA Standards at Deep Discount

ISEA is offering a complete set of its 12 American National Standards at 30 percent off the price of purchasing the publications individually. For \$325 including shipping, safety officers can get all the following publications in a convenient three-ring binder:

- *American National Standard for Limited-Use and Disposable Coveralls - Size and Labeling Requirements*, ANSI/ISEA 101-1996 (R2008)
- *American National Standard for Gas Detector Tube Units - Short Term Type for Toxic Gases and Vapors in Working Environments*, ANSI/ISEA 102-1990 (R2009)
- *American National Standard for Air Sampling Devices - Diffusive Type for Gases and Vapors in Working Environments*, ANSI/ISEA 104-1998 (R2009)
- *American National Standard for Hand Protection Selection Criteria*, ANSI/ISEA 105-2005
- *American National Standard for High Visibility Safety Apparel and Headwear*, ANSI/ISEA 107-2010
- *American National Standard for Air-Purifying Respiratory Protective Smoke Escape Devices*, ANSI/ISEA 110-2009
- *American National Standard for Fixed and Portable Decontamination Shower Units*, ANSI/ISEA 113-2008
- *American National Standard for High Visibility Public Safety Vests*, ANSI/ISEA 207-2006
- *American National Standard for Occupational and Educational Personal Eye and Face Protection Devices*, ANSI/ISEA Z87.1-2010
- *American National Standard for Industrial Head Protection*, ANSI/ISEA Z89.1-2009
- *American National Standard - Minimum Requirements for Workplace First Aid Kits and Supplies*, ANSI/ISEA Z308.1-2009
- *American National Standard for Emergency Eyewash and Shower Equipment*, ANSI/ISEA Z358.1-2009

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safety management systems (SMSs). The council supports the finding that comprehensive SMSs are effective in reducing the risk of workplace incidents, injuries and fatalities. ■

turing a diverse range of products used in over 70 percent of U.S. nuclear facilities, and in U.S. Navy nuclear submarines.

### What else would you like to tell readers about International Enviroguard?

We are a company that can offer container programs on commodity items and even private-label programs for low-end disposable garments. We work closely with our distribution partners to provide state-of-the-art protection and to solve end-user problems. We have designed numerous new garments and fabrics for a variety of applications in a very short time. This dedication to fast response cannot be duplicated by some of the larger multi-national companies. ■

**Examples of safety equipment after it has done its job saving workers from injuries.**



## BEST OF SAFETY EQUIPMENT WORKS

from page 27

killed. My wife, my three young children, and I thank you for saving my life." (Fibre-Metal head protection by Honeywell Safety Products, [www.northsafety.com](http://www.northsafety.com).)

### ▶ John Gets 'Nailed,' but Lives to Tell About It

John was at work when a 35-pound bucket of nails fell from 10 feet above and hit him on the head. Fortunately, John was wearing a hard hat and escaped with only a sprained back. (Head protection by ERB Industries, Inc., [www.e-erb.com](http://www.e-erb.com).)

## HIGH-VISIBILITY APPAREL

### ▶ Hats Off to a Retro-reflective Cap

Walter was called upon to deliver fuel to an out-of-gas motorist stranded along an unlighted, busy highway at night. As he attempted to gas up the car, Walter felt the "whoosh" of traffic on his back and jumped clear. Then he remembered he had a retro-reflective ball cap in the trunk of his car. Donning the cap, he returned to his task. In Walter's words, "The still-busy traffic immediately gave me a wide berth. It was amazing. They didn't know what it was, but it was clear drivers were now aware of me and moved over."

### ▶ High-Vis Vest Saves Woman's Life

Stephanie runs in her suburban Washington neighborhood during the winter months when it's pitch dark in the morning. Nearly every day, a man would honk and wave as he drove by her. During one of Stephanie's pre-dawn runs, the man honked, but then slowed to a stop. At first, she panicked. "Should I hightail it into the woods?," she thought. She slowed to a walk and kept a cautious distance as the man rolled down the window and said: "Hi, My name is Earl, and I work for the state highway administration. I've got something for you." He handed Stephanie an orange retro-reflective safety vest and said: "This will keep you safe." Stephanie thanked him and put on the vest as Earl drove away. Minutes later she was running on a sidewalk along a busy road approaching a dangerous intersection. Suddenly, a speeding car screeched to a halt about 15 feet before the stoplight and

waved her across the street. "I was shocked at the driver's perception until I remembered I was wearing the vest," Stephanie reported.

## PROTECTIVE APPAREL

### ▶ A Night in Fabric Armor

Keith Witte, a paramedic in the Minneapolis-St. Paul area, was part of a first-response team sent to the scene of a mid-winter two-vehicle crash in which one person was trapped. As the team worked to extricate the trapped man, Keith was lying across a crushed passenger seat and dashboard — with broken glass and vehicle fluid "everywhere" — while holding open the patient's airway. After the patient was freed and airlifted to a hospital, Keith's team returned to the station for cleanup and change of clothes. "I removed my jacket to find that the right sleeve was covered with glass and what I thought was antifreeze," Keith recalled. "But after brushing the sleeve off and finding a small burn on my wrist and smelling the odor, I realized it was battery acid; the sleeve was melting right before my eyes. But the jacket had saved me from severe battery acid burns." (Protective apparel by Blauer Manufacturing Co., [www.blauer.com](http://www.blauer.com).)



## RESPIRATORY PROTECTION

### ▶ He Lives to Fight Another Day

Robert, a Columbia, S.C., fire captain, was wearing respiratory protection as he climbed the stairs in a burning two-story apartment. Suddenly the roof collapsed; Robert was knocked down, pinned briefly on the floor, and exposed to dense smoke and heat estimated at 2,500 degrees F. His clothing and equipment were ablaze as Robert extricated himself from the fallen debris and escaped. But his mask stayed in place, providing the fresh air that enabled him to live to fight another fire. (Respiratory protection by Mine Safety Appliances Co., [www.MSAnet.com](http://www.MSAnet.com).)

### ▶ Smoke Wasn't In His Eyes

Dennis escaped through thick smoke from a fire in a unit near his on the 18th floor of a Chicago apartment building. When the build-



ing's fire alarm sounded again, Dennis was prepared with a respiratory protection escape hood. "Having the mask knocked down the panic I was feeling so I could think of my plans and how to get out," said Dennis, who already had plotted an escape route. Wearing the hood, he then helped a neighbor to safety. (Respiratory protection by Draeger Safety, [www.draeger.com](http://www.draeger.com).)

#### • THERMAL-IMAGING CAMERAS

##### ► Thermal Imager Finds Woman Lost in Marsh

A suburban Chicago woman can thank three local fire fighters and their thermal imaging camera for saving her life on a cold December day. Using their thermal imager, three Lake Zurich, Ill., firemen found the woman who had been missing in the marsh for several hours. Thermal imagers form pictures based on heat given off by various objects, including people. They can show heat through walls, smoke or a thicket. Police had been looking for the woman with



a search dog, but had no luck. Then the fire department applied its thermal imager and saw a blip that looked like it could be a person. That blip led the fire fighters through the marsh to the woman. (Thermal imager by Bullard, [www.bullard.com](http://www.bullard.com), which honored the Lake Zurich fire fighters by inducting them into the company's "Save-A-Life Club.")

##### ► Thermal Imagers Help in Boy Scout's Rescue

Thermal imaging cameras were among several tools that helped rescuers find a Boy Scout lost in a rugged section of North Carolina's Blue Ridge Parkway National Park. Twelve-year-old Michael Auberry had been camping with six other boys and three parents when he wandered away from the campsite. Rescuers fanned out across the mountain terrain looking for him; they were equipped with search dogs and GPS devices, along with thermal imagers. The devices can "see" through leafy cover and other barriers. Auberry was found alive in good condition on the third day of the search. (Thermal imagers by Scott Health & Safety, [www.scotthealthandsafety.com](http://www.scotthealthandsafety.com).) ■

## Send Us Your 'Safety Equipment Works for You' Stories

*Protection Update* welcomes contributions from all readers for the "Safety Equipment Works for You" feature. Email examples of where PPE has saved workers' lives or prevented injuries to Editor Joe Walker, [jwalker@safetysafetyequipment.org](mailto:jwalker@safetysafetyequipment.org), or mail them to the Editor, *Protection Update*, International Safety Equipment Association, 1901 N. Moore Street, Suite 808, Arlington, VA 22209. Photos are welcome.

## OSHA \$100,000 CLUB OF SAFETY CITATIONS

The U.S. Occupational Safety and Health Administration (OSHA) has proposed penalties of \$100,000 or more during the June 1 – Aug. 31, 2010, period for the following alleged failures to protect workers from potential hazards, including many that could have been avoided or mitigated by personal protective equipment (PPE). Companies have 15 business days from receipt of citations and fines to request and participate in informal conferences with OSHA or to contest the citations before the independent Occupational Safety and Health Review Commission:

- Three construction companies and 14 site contractors, \$16.6 million for 371 workplace safety violations following an investigation into the causes of February's deadly natural gas explosion at the Kleen Energy Systems LLC power plant construction site, Middletown, Conn. The explosion took the lives of six workers and injured 50 others. The three main companies cited by OSHA are O&G Industries, Torrington, Conn., the project's general contractor; Keystone Construction and Maintenance Inc., Rowley, Mass., which was in charge of the piping and oversaw the gas blow during which the explosion occurred, and Bluewater Energy Services, Apex, N.C., the commissioning and start-up contractor.
- U.S. Postal Service (USPS), a total of \$3,408,500 for numerous violations chiefly related to electrical hazards at mail processing and distribution facilities in Philadelphia (two); Providence, R.I.; Scarborough, Maine; White River Junction, Vt.; Boston; Pittsburgh; Capitol Heights, Md.; Dayton, Ohio, and Portsmouth, N.H. In all cases, OSHA inspected after receiving worker complaints about unsafe conditions. As a result of the numerous violations uncovered at these facilities, OSHA has asked the Occupational Safety and Health review Commission to order USPS to correct electrical violations at

350 facilities, marking the first time the Department of Labor has sought enterprise-wide relief as a remedy.

- E.N. Range Inc., Miami, \$2,099,600 for knowingly neglecting to protect employees who clean gun ranges from serious overexposure to lead, and for providing without medical supervision non-FDA-approved treatments for lead exposure. Citations allege that E.N. Range did not use engineering controls to prevent overexposure to lead, perform air sampling to determine the extent of its workers' exposure, provide showers for workers who had been exposed to lead, or provide blood testing to exposed workers every six months.
- Cooperative Plus Inc., a total of \$1,095,500 for exposing workers to the risk of being engulfed and suffocated in grain storage bins at facilities in Burlington, Genoa City and Whitewater, Wis. Violations included failing to have an employee wear a safety harness and lifeline before entry into a bin.
- VPP Group LLC, \$369,500 for 38 safety and health violations, including failing to perform hearing tests on employees exposed to extremely high noise levels and failure to provide proper fall protection, at its Norwalk, Wis., meat-packing operation.
- UCB Manufacturing, \$357,300 for violations at its Rochester, N.Y., pharmaceutical manufacturing plant. ► 36

**OSHA \$100,000 CLUB** *from page 35*

The citations mainly concern failure to address hazards for workers whose duties involve exposure to the potential carcinogen methylene chloride.

- CEC Elevator Cab Corp., \$346,500, mainly for “failure-to-correct” hazards found during previous inspections at its manufacturing facility in the Bronx, N.Y.
- Loup Valley Alfalfa Inc., Burwell, Neb., \$293,000 for violations including failure to provide fall protection on open-sided platforms at its grain handling facility.
- American Seafoods International LLC, \$279,000 for violations at its New Bedford, Mass., processing facility; violations chiefly involved employee exposure to the hazardous chemical anhydrous ammonia.
- Matthews Manufacturing Inc., \$262,200 for numerous violations at its sheet metal fabricating operation in St. Louis, including exposing workers to energized overhead power lines, lack of respiratory protection and other types of PPE.
- Worthen Industries Inc., \$225,000 for violations found following an explosion at the company’s glue and adhesives manufacturing plant in Nashua, N.H.; citations included fall hazards and lack of PPE.
- U.F.S. Industries, doing business as Sally Sherman Foods, \$247,050, chiefly for failing to correct previously cited hazards, including failure to provide adequate fall protection, at the salad manufacturer’s Mount Vernon, N.Y., plant.
- Clint Horn, doing business as Sturgis Tuckpointing, St. Louis, \$221,600 for repeatedly exposing workers to fall hazards while working on scaffolding structures.
- High Liner Foods Inc., \$214,500 for violations found at the company’s Portsmouth, N.H., seafood processing plant; the company was cited mainly for failure to address deficiencies in its anhydrous ammonia piping system used for freezing.
- Kenton Iron Products LLC, Kenton, Ohio, \$214,500 for unsafe working conditions, including lack of fall protection and PPE, at its iron casting facility.
- 160 Broadway Corp., doing business as Broadway Concrete, \$210,000 for failing to comply with terms of a settlement designed to eliminate worker fall hazards at a Jersey City, N.J., construction project.
- Scuba Clean Inc., St. Petersburg, Fla., \$200,900 for violations found during a worker-complaint-prompted inspection; hazards mainly focused on improper diver training and equipment.
- Jarden Home Brands, \$197,500 following an inspection that uncovered deficiencies, including lack of fall protection equipment, at a company worksite in Greenville, Texas.
- AAR Summa Technology, \$191,500 for numerous violations found at the company’s Huntsville, Ala., plant that produces military aircraft parts.
- U.S. Postal Service, \$191,000 for numerous violations at its Kansas City, Kan., Bulk Mail Center; violations included deficiencies in walking/working surfaces, fall protection, and sling use.
- AmeriCold Logistics LLC, \$189,900 for serious hazards at the company’s Burley, Idaho, food warehousing facility; OSHA cited the company’s Nampa, Idaho, facility for similar violations in April.
- Calumet Shreveport Lubricants & Waxes LLC, \$173,000 for violations found at the company’s Shreveport, La., refinery.
- Walter Coke Inc., \$171,500 for exposing workers to a variety of safety hazards at the company’s Birmingham, Ala., operation, which produces coke for use in blast furnaces and foundries in the steel industry.
- Thermal Polymer Systems LC, \$161,600 following an explosion inside a confined space that killed one worker and injured two others at the company’s Angleton, Texas, facility.
- U.S. Minerals LLC, \$158,200 for violations at its abrasive blasting and roofing materials plant in Baldwin, Ill.
- Bridon American Corp., \$156,000 for citations issued following an inspection of the company’s Exeter, Pa., wire rope manufacturing plant; the inspection was part of a local emphasis program on amputations.
- Enbridge G&P (East Texas), \$152,100 for violations found after a chemical release at the company’s Bryans Mill plant in Douglasville, Texas, resulted in a worker’s death.
- Marc Glassman Inc., doing business as Xpect Discounts, Cleveland, \$140,700 for violations identified during inspections at stores in North Haven, East Haven and Derby, Conn.
- Whitcraft LLC, \$139,680 for violations found during an inspection at its aircraft parts manufacturing plant in Eastford, Conn.; citations included lack of PPE.
- Matula & Matula Construction, \$136,000 for violations following the death of a worker inside a sanitary sewer manhole in Lake Jackson, Texas; the worker was overcome by hydrogen sulfide.
- Rexnord Industries LLC, Milwaukee, \$130,500 after a mechanical power press operator, removing parts from a dumper, had her arm amputated when the machine unexpectedly began to operate; the company makes transmissions and conveying equipment.
- EDAC Technologies Corp., \$130,050 for violations found during an inspection conducted at the company’s Farmington, Conn., aircraft parts manufacturing plant.
- Creekstone Farms Premium Beef LLC, \$130,000 for exposing workers to a potential catastrophic release of ammonia at its meat-processing facility in Arkansas City, Kan.
- Krestmark Industries LP, Dallas, \$129,500 for exposing workers to various hazardous conditions, including high noise levels, at the metal door and window manufacturing plant.
- Cannon Builders Inc., Blackfoot, Idaho, \$127,800 for multiple hazards, including exposing workers to fall hazards without protection at a Hansen, Idaho worksite.
- New York Plank Services LLC, Brooklyn, N.Y., \$125,000 for violations after part of a residential building the company was working on collapsed; OSHA found workers exposed to fall and crushing hazards.
- Pierce Industries, \$114,750 in additional fines, chiefly for failing to correct fall hazards cited during a previous inspection at the company’s machine shop in Rochester, N.Y.
- Home Depot USA Inc., \$112,000 in additional fines for failure to correct hazards previously cited at the chain’s store in West Nyack, N.Y., including lack of drenching facilities for employees who may be exposed to chemicals. ■