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Protection Update

is the newsletter for the ISEA Partnership for Worker Protection program. It is intended for anyone who specifies, purchases or uses personal protective equipment, and those who regulate it. *Protection Update* is distributed without charge, and also is available on ISEA's website www.safetysitequipment.org.

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OUTDOOR SKIN PROTECTION: How to Protect Yourself Against the Elements

By Robert J. Ennamorato, Jr.
Fibre-Metal Products Company

Outdoor skin protection is an often-neglected safety concern that is beginning to draw more attention from construction safety officials. According to the U.S. Bureau of Labor Statistics (BLS), there are approximately 13 million outdoor workers in the United States who are exposed to workplace skin hazards. Skin disease is the second leading cause of occupational illness. For outdoor workers, skin disease is now a leading cause of lost productivity and cost. Common outdoor skin hazards include sun-rays, insect bites, and poison plants.

Nowhere are these hazards more prevalent than in heavy construction. Heavy construction crews are often more concerned with other safety matters and neglect to take measures to protect their skin. While serious work-

related injuries have decreased in recent years, skin-related illnesses have seen a rapid increase in the heavy construction industry.

Too much skin exposure to the sun can cause obvious injuries like sunburn and lead



to more serious health problems like skin cancer. Because of the alarming increase in outdoor workers stricken with skin cancer, it is imperative that they protect themselves, even if they spend only a short

amount of time outside. To properly protect themselves, outdoor workers should wear sunscreen with an SPF of 15 or higher and reapply it often. An SPF 15 blocks 93 percent of the burning ultraviolet (UV) rays.

Insect bites and stings were largely ignored by heavy construction crews in the past and considered nothing more than a nuisance. For today's outdoor worker, a tick or mosquito bite could lead to a serious illness like Lyme disease or West Nile Virus and cause extended lost time. The majority of heavy construction crews begin work at dawn when mosquitoes are at their peak feeding period. The early stages of heavy construction usually include clearing out overgrown, woody areas, leaving the worker exposed to ticks. Mosquito and tick bites are easily ▶ 8

Visit ISEA at National Safety Congress

Going to the National Safety Congress and Expo, September 5-12, in Chicago? Be sure to stop by ISEA's booth — #168 — to meet the staff and pick up the latest information from ISEA's "Partnership for Worker Protection" to enhance your personal protective equipment program.

NEW PROTECTION FOR ROAD CONSTRUCTORS



Direct Safety Buyer's Guide

FOR THE WHOLE PERSON...

From **Direct Safety** is the *Buyer's Guide*, May-August 2003, which provides a complete array of products to meet all safety requirements. Direct Safety's 284-page, full-color master catalog offers a selection of personal protection, industrial safety and traffic control products. 800-528-7405 or fax 800-760-2975 or directsafety.com.

From **Fibre-Metal** is "Bugoff" brand skin protection kit for outdoor construction workers. It contains sunscreen, lip balm, poison plant pre-contact barrier towelettes, and post-contact cleanser, insect repellent,

first-aid burn gel, sting relief pads, anti-itch crème and waterless hand sanitizer in a sturdy, wallet with a heavy-duty zipper. All contents are refillable.

"Bugoff" brand skin protection kit from **Fiber-Metal**



888-210-0705 or fibre-metal.com.

From **Kimberly-Clark's Safety Division** are KleenGuard® XP1 coveralls made from breathable, micro-porous film laminate that the company says provide a stronger, more economical alternative to garments made from flashspun polyethylene for non-hazardous liquid and particulate barrier protection. They provide 100 percent holdout of dry particles down to 0.3 micrometers, Kimberly-Clark reports. 800-255-6401 or kc-safety.com.



Kimberly-Clark's KleenGuard® XP1 coveralls

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X-plore 5800

Introducing the new Dräger X-plore® series of half mask and full face mask respirators setting a higher standard in comfort, fit and use. Developed in partnership with many different types of industrial users worldwide, X-plore is available in three versions with three sizes.

X-plore 3300 is a limited use half mask for those needing an economical yet comfortable respirator.

X-plore 3500 is a reusable, long-term reusable half mask. It uses a unique new material called DrägerFlex combining hypoallergenic properties with excellent chemical resistance, providing a soft comfortable seal without skin irritation. A flexible nose seal conforms to fit everyone even when wearing safety glasses. The swept back position of the cartridge filters ensure a wide field of vision free from obstruction.

An integral slide down head harness system allows removal from your face without removing a hard hat or face shield.

X-plore 5800 full face mask is for those requiring the highest level of respiratory and eye protection. A double layer face seal provides triple sealing action with the best fit factor for all face sizes and shapes. The five point head harness is easy to don and simple to adjust. A chemical resistant large lens offers wide field of vision without distortion.

Choose the X-plore respirator that best solves your industrial application, then call your Dräger representative today. You'll discover the best solutions for greater comfort and fit in respiratory protection—Dräger X-plore.

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www.draeger.net

AGAINST FALLS...

From **Bacou-Dalloz** is the Miller Scorpion personal fall limiter, which the company says offers more versatility and provides greater mobility than shock-absorbing lanyards. Features include dual operation, competitive price, smooth and quiet design,



Uvex Genesis®
from Bacou-
Daloz



nine feet of working capacity, and a lifeline protected with a Teflon HT finish for water/oil repellency. 800-873-5242 or bacou-daloz.com.

From **Elk River, Inc.**, is an expanded array of fall-protection products stemming from its merger with J.E. Lortie (Jelco), Montreal, Quebec. Elk River's primary focus is on the construction and tower industries, while Jelco's is on the utility and arborist industries. Together, they will be able to market more products to customers, Elk River said. 800-633-3954 or elkriver.com.

From **Mine Safety Appliances Co.** is

MSA TechnaCurv™



the TechnaCurv™ full-body harness, which the company says uses MSA-exclusive torso webbing that curves around the neck area to help prevent chafing and discomfort, and an adjustable Y-back, D-locator pad that allows

complete, easy adjustment of the back D-ring for enhanced fit and comfort. 800-MSA-2222 or www.technacurv.com

FOR THE HEAD, FACE AND EYES...

From **Bacou-Daloz** is Uvex Genesis® protective eyewear, which the company says is engineered with a unique ventilation channel between the eyewear and frame for added comfort and better vision in hot, humid work environments. The channel vents the eye socket area, allowing air to circulate, reducing moisture buildup and fogging, according to Bacou-Daloz. 800-345-4112 or bacou-daloz.com.

From **H.L. Bouton** is the 6800 Soft Brow safety spectacle, which the company says features a cushioned brow for added comfort, a padded mastoid temple for secure ▶

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H.L. Bouton's 6800 Soft Brow safety spectacle



Bradley Corporation's On-Site Gravity-Fed Eyewash



Protective Eyewear Series 1723 from 3M

fit, an anti-slip adjustable nose piece and integrated side shields. It is available with matte black temples and offers clear, gray, amber and TrueView™ lenses. 800-426-1881 or hlbouton.com.

From **Bradley Corporation** is the On-Site Gravity-Fed Eyewash that maintains a constant flush for 15 minutes using only seven gallons of solution. Portable and self-contained, the eyewash is ideal when plumbing is not available, according to the company. The On-Site weighs only 60 pounds filled. It has built-in handles and comes with an eight-ounce bottle of water preservative, a safety sign and inspection tag. 800-BRADLEY or bradleycorp.com.

From **Magid Glove & Safety Manufacturing Co.** are two new models of Sapphire safety glasses. The "Plus" and "Sleek" models feature lightweight nylon frames with adjustable temple lengths, brow guard, polycarbonate scratch-resistant lenses, and wrap-around side shields. "Plus" has an adjustable tilt ratchet temple with black frame and clear, fog-free lens, while the "Sleek" has an angled clear-coated polycarbonate lens and molded-in side shields. 800-444-8030 or magidglove.com.

From **3M Occupational Health & Environmental Safety Division** is the Protective Eyewear Series 1723, featuring amber-tinted lenses to help enhance visual contrast. The new eyewear provides a comfortable fit and conforms to the face to help provide enhanced protection, the company says. The vinyl nose cushion, adjustable temples and non-slip rubber head grip help improve comfort, compliance and acceptance, and increase wear time. 800-328-1667 or 3M.com/occsafety.

From **Sellstrom Manufacturing Co.** is the DP4 Faceshield Series, which has a variety of features for ultimate protection and versatility. These include a clear window for grinding, shade 3 IR window for cutting, shade 5 IR window for cutting and brazing, and combination clear window with shade 5R IR flip-up lens for use in grind-

ing, cutting and/or brazing, according to the company. 800-323-7402 or sellstrom.com.

FOR BREATHING...

From **Draeger Safety**, 412-787-8383 or draeger.net are:

- "X-plore" respirator series. The lightweight masks' new design provides for a uniquely comfortable face seal. An X-guided strap



Draeger Safety's X-plore respirator series (above) and Pac Ex 2 monitor.

ensures even distribution of the mask against the face giving the wearer extra comfort, without unwanted pressure on the face or pulling of the hair. The series includes two half-mask

and one full-mask respirator with NIOSH-approved filters and cartridges.

- Pac Ex 2 hand-held combustible gas and oxygen monitoring device.

This instrument is simple and easy to operate and lasts 12 hours between charges, the company says. It features a clear, fully functional LCD display with audible, visual and vibrating alarms for personal protection. It has the ability to measure combustible gases in the 0-100% LEL range, and the range of 0-25% volume oxygen.



From **Hörnell** is the ClearVisor with Adflo® system, which combines a slim, lightweight, powered air-purifying respirator (PAPR) with full eye and face protection, the company says. The PAPR is used with a high-efficiency particle filter that can



DP4 Faceshield from Sellstrom Manufacturing



**Hörnell
ClearVisor
with Adflo®
system**

be "stacked" onto an optional Adflo cartridge for additional protection against organic vapors, sulfur dioxide, chlorine and hydrogen chloride fumes. The polycarbonate ClearVisor face shield has a wide viewing area, while providing protection from high-impact hazards. 800-628-9218 or hornell.com.

From **Magid Glove and Safety Manufacturing Co.** is the N95 disposable respirator, which has a soft, padded nose seal that offers exceptional fit and protection, the company says. The new model also has a valve to allow easy ventilation. It is ideal for sanding, installing insulation and

other applications involving solid particulates. 800-444-8030 or magidglove.com.

From **Mine Safety Appliances Co.**, 800-MSA-2222 or msanet.com, are:

- Orion® G gas and leak detector, which is a four-gas, multi-function portable detector featuring one-button calibration, a 16- to 20-hour run time, and advanced ergonomic design, according to the company. The Orion G detects oxygen, hydrogen sulfide, carbon monoxide, and combustible gas leaks.
- PULSAR™+ single-gas detector, which adds an easy-to-read gas concentration display, replaceable sensor, and long-life battery to a proven performer. It has one-button auto-calibration, a triple-alarm system, and a leak-proof, easily replaceable stainless steel sensor for carbon monoxide, hydrogen sulfide or oxygen.

From **Survivair**, a Bacou-Dalloz company, is a new, mask-mounted Heads-Up ▶ 14

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About the Author

Raymond A. Mann is a Qualified Safety Sales Professional (Q.S.S.P.) and director of technical sales of the Fall Protection Division of Sellstrom/RTC, Palatine, Ill. In addition to fall protection, the ISEA member company manufactures eye, face, head, hearing and respiratory protection, eyewash and showers, and welding safety products. Reach Mann at 847-358-2000 or raymond.mann@sellstrom.com.

Look for Fall Protection from ISEA Members

Aearo Company

Buckingham Manufacturing Co.

Capital Safety Group (Can-Sling/DBI, DBI/Sala, Protecta International and Sinco/Sala)

Bacou-Dalloz/Miller-Dalloz Fall Protection

Elk River, Inc.

Klein Tools Inc.

Mine Safety Appliances Co.

North Safety Products

Sellstrom Manufacturing Co.

Over the 310-Pound Weight Restriction For Fall Arrest?

HERE'S WHAT TO DO

By Raymond A. Mann, Q.S.S.P.
Sellstrom/RTC

Today's standards for fall-arrest products only provide performance guidelines for individuals weighing less than 310 pounds. This maximum weight rating includes tooling, clothing and other protective apparel or equipment to be worn by the individual while working at heights.

In many situations, individuals such as myself, who are above the 310-pound total weight rating, are required to utilize fall-protection as part of their daily job activities. Making a conscious decision to outfit personnel in a complete fall-arrest system that has not been rated or tested for individuals above 310 pounds could create a situation with potentially serious and even tragic consequences.

Moreover, there is nothing more degrading than being told you cannot perform a job task because you are overweight by standards. In my 10 years of travel throughout North and South America, I have seen many workers who clearly were not in compliance with the 310-pound maximum weight rating. When this is the case, the key factor is training, awareness and attention to product testing and labeling. Safety supervisors, jobsite foremen, safety specialists and others responsible for safety and training must make it a point to educate employees about the parameters limiting a fall-arrest system.

During a visit to a facility in 1999, I spoke with an individual who asked what fall-arrest products he should be using. I found the

harness he was wearing to be simply an extra-large, full-body harness, with a maximum weight rating of 310 pounds. This employee weighed 380 pounds and showed no signs of being incapable of performing the task at hand. Obviously, the full-body safety harness in his possession was not rated for his body weight.

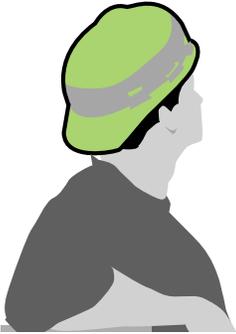
Either the operator simply ignored the weight rating, or he was not aware that products are available for this type of application. This is an example of incomplete training, product performance criteria and the absence of competent persons being involved in the project. Training is the key element for a safe and effective fall-protection program.

Today, options are available to provide compliant fall-arrest products for individuals weighing over 310 pounds, including full-body safety harnesses, shock-absorbing lanyards and self-retracting lifelines. These products are labeled to reflect the increased weight rating. Individuals who find themselves in this weight category should be urged to contact their fall protection distributor or manufacturer for information.

Another concern with individuals weighing over 310 pounds is how will they connect to anchorage points for tie-off. Most portable manufactured anchorage connectors such as pipe anchors, web-sling anchors and choker slings are rated at 5,000 pounds ultimate strength. However, these anchors most likely have only a maximum weight rating of 310 pounds. Individuals should contact their fall protection supplier for fall protection that is tested and certified for more than 310 pounds.

Permanent anchorage connectors should be included in the certification process. Facilities utilizing permanently installed anchorage connectors should identify specifically anchorages that have been rated for over 310 pounds. This may require the assistance of a structural engineer, design engineer or U.S. Occupational Safety and Health Administration—"qualified person."

Remember, safe and functional fall protection can be achieved for the 310-pound-plus worker through training, proper product selection and knowledge. ●



Hardhats Forward and Backward: Round Two

The Winter 2003 *Protection Update* provided ISEA's official position concerning hardhats worn backward. In the January 2003 issue of *Compliance Magazine*, Kristin Bacon, industrial safety product manager for Bullard, a hardhat manufacturer and ISEA member, also addressed this topic. Here is what she said:

"A hardhat must always be worn according to the manufacturer's directions. There are certain instances when a worker may need to turn the hardhat around...to perform a certain task without the obstruction of the shell brim.

"For a hardhat to perform properly when worn in this manner, with the bill of the cap facing backward, the suspension must be reversed in the helmet so that the headband is aligned with the wearer's head. The brow pad should be against the forehead and the extended nape strap at the base of the skull, so only the shell of the helmet is backward on the head. The hardhat suspension should be properly adjusted to be balanced and should fit comfortably on the user's head.

"Reversing the suspension and wearing a hardhat backward applies only to certain model helmets where the manufacturer has approved and confirmed the helmet still meets the requirements of the American National Standards Institute (ANSI) Z89.1-1997 for Industrial Head Protection when worn in this manner.

"Bump caps are not ANSI approved, and do not provide any impact or penetration protection. They are only designed for bump and scrape protection. Care should be taken with the position of the bump cap on the head. A bump cap tilted far back on the head and not balanced properly could fall off or expose too much of the head and not pro-

vide adequate bump and scrape protection.

"As with any piece of personal protective equipment, always read the instructions and warnings provided with the product and consult the manufacturer with any questions regarding proper use of the product." ●

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About the Author:
Robert J. Ennamorato, Jr., is a communications consultant and writer specializing in personal-protective-equipment (PPE)-related occupational safety and health topics. Currently, he is on a long-term assignment at the Fibre-Metal Products Co., Concordville, PA. The ISEA member manufactures head, eye, face, hearing, and respiratory PPE, welding helmets, and products to deal with temperature extremes. Reach Ennamorato at 610-459-5300 or rjejr@excite.com.



SKIN PROTECTION

from cover

preventable with a DEET repellent. DEET repellents provide longer periods of protection by slowing the absorption and evaporation from the skin. Stinging insects can trigger life-threatening allergic reactions. It is important that basic training in how to respond to an allergic reaction be provided for outdoor workers. Sting relief medication allows the worker to stay focused on his or her job and not on the pain.

Exposure to poison plants may be the least life threatening, but can be the most costly in terms of lost time. A preventative barrier lotion or towelette that is applied before exposure to poison oak, ivy and sumac can prevent an entire crew from being affected. A serious case of poison ivy recently caused a heavy construction crew to lose 30 workers for ▶

Other Ways to Beat the Heat

Although summer is about half over, plenty of hot, humid days remain even in the cooler parts of the country. From the U.S. Occupational Safety and Health Administration (OSHA), here are eight other ways to help workers beat the heat:

- Encourage workers to drink plenty of water — about a cup every 15-20 minutes even if they are not thirsty; avoid alcohol, coffee, tea and caffeinated soft drinks that dehydrate the body.
- Help workers adjust to the heat by assigning a lighter workload and longer rest periods for the first five to seven days of intense heat. Start the process over again when a worker returns from vacation or absence.
- Encourage workers to wear lightweight, light-colored, loose-fitting clothing.
- Use general good ventilation and spot cooling at points of high heat production. Good airflow increases evaporation and cooling of the skin.
- Train first-aid workers to recognize and treat signs of heat stress and be sure all workers know who has been trained to detect early signs of heat-related illness. Permit workers to interrupt their work if they become extremely uncomfortable.
- Consider a worker's physical condition when determining fitness to work in hot environments. Obesity, lack of conditioning, pregnancy and inadequate rest can increase susceptibility to heat stress.
- Alternate work and rest periods, with rest periods in a cooler area. Shorter, more frequent work-rest cycles are best. Schedule heavy work for cooler times of the day and use appropriate protective clothing.
- Monitor temperatures, humidity and workers' responses to heat at least hourly.

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For more information:

Sellstrom/RTC
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an extended period of time. After exposure, the poisonous oil contained in these plants cannot be washed off with soap and water. However, special cleanser towelettes remove irritating oils and prevent the outdoor worker from contracting one of the poison-related skin conditions. Poison ivy, oak and sumac cause almost two million cases of dermatitis a year.

Educating outdoor workers about skin protection makes for a safe and more productive work environment. Prevention of skin injuries is possible if appropriate protection is handy for outdoor workers to use. For heavy construction crews working in isolated areas, having the protection on site can increase the effectiveness and decrease down time. Providing a small kit of protective supplies that workers can attach to the belt-loop or leave in toolboxes makes skin protection easy and time-effective. ●

Update Your First Aid Kits With New ANSI Standard

Be sure your first aid kits contain all of the required items by checking them against the newly revised standard that applies to workplace first aid kits.

ISEA has published a revision of *American National Standards Institute (ANSI) Z308.1-2003 - Minimum Requirements for Workplace First Aid Kits*, developed by ISEA's First Aid Group. The updated standard expands the list of recommended first aid kit contents to include analgesics, burn dressings and CPR barriers. It also takes into account all types of packaging of first aid products and containers for use inside and out in mobile and stationary settings.

ANSI Z308.1-2003 may be ordered from ISEA's website, safetyequipment.org. The single-copy price is \$25; discounted rates are available for bulk orders. For additional information, contact Janice Comer Bradley, ISEA technical director, jbradley@safetyequipment.org, or Cristine Fargo, ISEA technical projects coordinator, [\[ment.org\]\(http://ment.org\), or call 703-525-1695.](mailto:cfargo@safetyequip-</p>
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And look for first aid products from ISEA members AFFASCO, ARI, First Aid Only, JPI/American Allsafe Co., 3M Co., North Safety Products, Swift First Aid, Water-Jel Technologies and Zee Medical. ●



Accidents can happen anytime, anywhere. If they do, get out quickly with DBI's new Davit Rescue System. With multiple adjustments and base options, it's the confined space entry system that adapts to any situation or environment. Completely disassembles for easy transport and storage. Load rating exceeds 3600 pounds. Call 800-328-6146 or visit salagroup.com.



WHAT THE
CREW UP THERE
WANTS TO WEAR.



MAKING CONSTRUCTION SAFER AROUND THE NATION

From the U.S. Department of Labor (DOL) and Occupational Safety and Health Administration (OSHA), visit osha.gov:

• Hispanic workers are **encouraged to report violations of laws enforced by**

OSHA through a new DOL program launched in conjunction with the consulates of Mexico and El Salvador. A telephone line will be dedicated to receive inquiries from the public and channel those calls to the appropriate federal or state agency, DOL said. Call toll-free 1-866-4-USA-DOL.

• OSHA seeks comments until Sept. 4, 2003, on two proposed **rules to enhance worker protections from respiratory hazards**. Proposals would amend the Respiratory Protection Standard to include a new fit-testing procedure and incorporate new Assigned Protection Factors (APFs) for respiratory protection programs. OSHA anticipates that these changes would prevent 4,000 injuries and illnesses and 900 deaths annually from cancer and other chronic diseases.

• OSHA has issued a new bulletin that advises contractors on **hazards associated with striking underground gas lines** during excavation work. The bulletin addresses establishment of a detailed work plan, training of employees, how to determine locations of underground utilities, and coordination with utility companies.

• OSHA will establish a Crane and Derrick Negotiated Rulemaking Committee to develop a **new, proposed construction safety standard for cranes and derricks**.

Members will identify key issues, evaluate their importance, analyze the information necessary to resolve issues, and work to reach a consensus on the coverage and substance of the proposed rule. The committee will consist of up to 25 members, with OSHA having a seat on the committee.

National Institute for Occupational Safety and Health (NIOSH):

• Has an expanded online resource for locating information on preventing work-related illnesses linked to **occupational exposure to silica dust**. Respirable crystalline silica poses a risk of silicosis, an irreversible but preventable disease for 1.7 million exposed workers. Visit cdc.gov/niosh/topics/silica/default.html.

• Is studying ways to reduce **risks of hand-vibration disorders** for employees who use jackhammers, chipping hammers, power

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drills and other vibrating tools. Vibration from hand-held tools is associated with the risk of pain, numbing and blanching of the fingers, known as vibration white finger. NIOSH's work includes investigating the effectiveness of anti-vibration gloves. For further information on NIOSH's hand-arm vibration research, contact Ren G. Dong, rkd6@cdc.gov or Aaron Schopper, aws0@cdc.gov.

● Is studying ways of **preventing falls from roofs**, which account for some 400 construction fatalities and more than 20,000 serious injuries a year. One study indicates that workers do not recognize adequately that height and surface slope synergistically increase their standing postural instability. Visit cdc.gov/niosh/enews.

To help businesses **understand the total cost of a workplace accident**, The Hartford has created a cost estimation tool called the "Losstimator." The tool is available on thehartford.com/corporate/losscontrol/index.html.

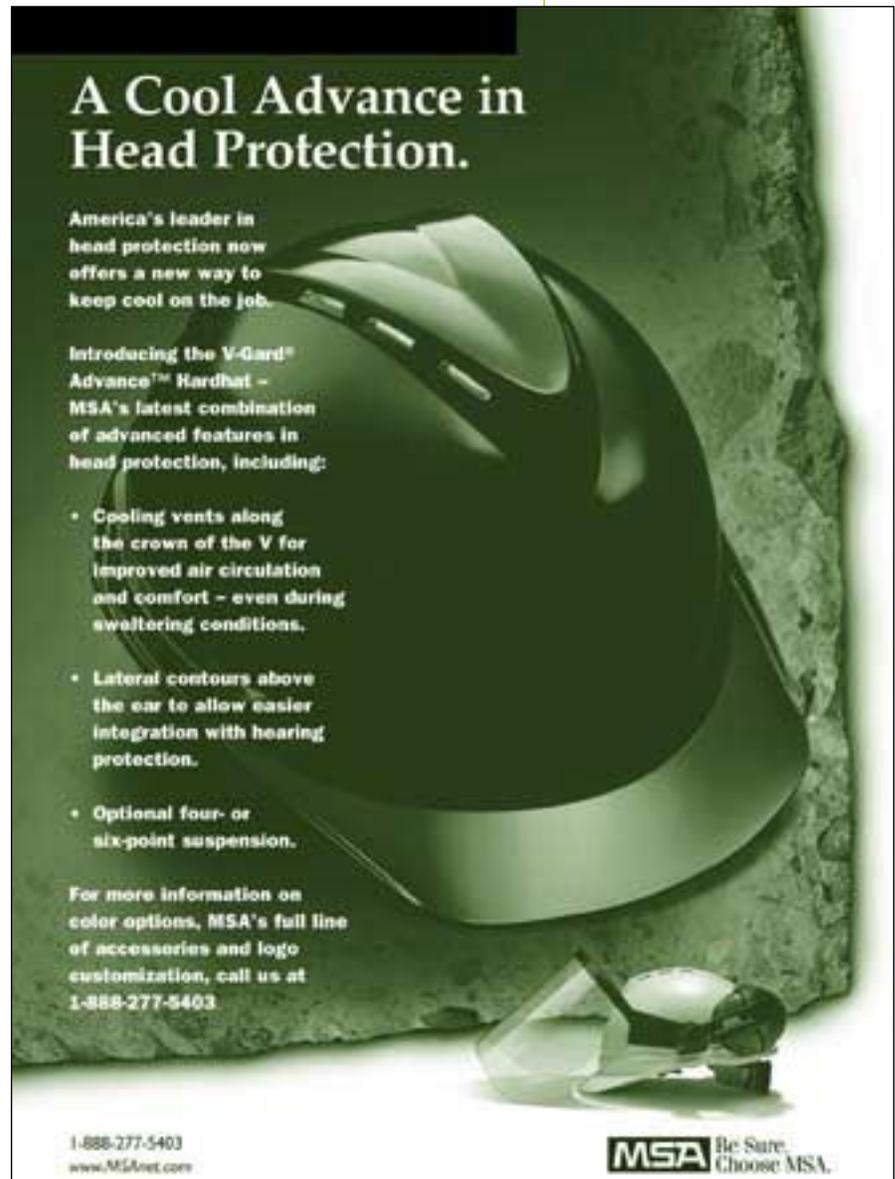
Associated General Contractors (AGC) of America and OSHA have launched their **program of steel erection training** to educate contractors on recent revisions to OSHA's steel erection standard. Because AGC received an OSHA grant to develop and deliver the training, free seminars are open to all contractors; participants receive eight hours of training. Among many important topics covered are implications related to design, hoisting, and fall protection training. Visit agc.org/setraining for future workshop locations and dates.

Also, three **Spanish-language communications tools** to enhance worker safety are available from AGC: "Construction Toolbox Safety Talks CD-ROM," "Basic Safety Rules for Construction," and the "Construction Spanish Translator." The AGC also offers 19 Spanish videos. Visit agc.org/bookstore.

American Society of Safety Engineers (ASSE) – asse.org — has published a new **standard on confined space guidelines** and a new edition of *An Illustrated Guide to Electrical Safety*. The standard – *American National Standard Z117.1-2003 Safety Requirements for Confined Spaces* — establishes minimum requirements for per-

sonal protective equipment, safeguarding, permits and emergency response plans. The electrical safety guide focuses on codes and requirements for safety professionals, employers and compliance officers, and includes revisions of the 2002 National Electric Code. Call 847-699-2929.

Also, a new ASSE-published paper says that **asbestos remains a significant workplace safety concern**. Materials that may still be imported or produced with asbestos include cement, clothing, pipeline wrap, roofing felt, cement shingle, millboard, ▶



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MAKING CONSTRUCTION SAFER **continued**

cement pipe, and roof coatings, ASSE said. Exposure to asbestos can cause various forms of cancer and symptoms may take 20 years or more to develop.

International Staple, Nail and Tool

Association has **updated the ANSI standard for air nailers and staplers**; 2002 ANSI SNT-101-2002 requires that eye protection be worn when using these tools. Visit isanta.org.

The Concrete Sawing and Drilling Association has a **new wire sawing video**. A major section of the 23-minute tape deals with wire sawing safety. Visit csda.org.

American Society of Concrete Contractors has issued Safety Bulletin #32, **Hand Safety: Beyond OSHA Rules**. The new publication covers hazards such as sharp tools, abrasive materials, shifting materials, forms and equipment, fresh concrete burns, wood splinters and frostbite. Visit asconline.org.

Federal Highway Administration has two new, full-color brochures that are part of its **program to create safer highway work zones**. Both brochures — *Improving Traffic Control for Night Work Zones* and *Worker Safety and Visibility* — stress the importance of high-visibility apparel and worker training to enhance safety. Visit <http://safety.fhwa.dot.gov/programs/wsz.htm>. ●

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LEADING THE ADVANCEMENT OF HEARING

TELL US YOUR STORY

Protection Update seeks stories from construction industry safety specialists giving concrete (pardon the pun) examples about how their safety programs incorporating personal protective equipment have prevented injuries, saved lives and saved their companies' money. If you have a story to tell, contact Editor Joe Walker at 703-525-1695 or jwalker@safetysafetyequipment.org. If you send an email, please provide your telephone number. *Protection Update* will write the stories for future newsletter issues based upon your experiences.

OSHA's \$100,000 Club for Construction-related Safety Violations

The U.S. Occupational Safety and Health Administration (OSHA) has proposed penalties of \$100,000 or more for the following recent failures to protect workers from potential hazards, including many that could be avoided or mitigated by safety equipment:

- Pace Industries, Inc., of Harrison, Ark., \$431,650 for alleged failure to protect employees against burns from molten metal and to follow safety standards for guarding machinery and preventing falls, including not providing appropriate personal protective equipment (PPE). In addition, OSHA said that the company failed to ensure that employees were prohibited from entering danger zones without proper PPE, including not providing hearing protection to employees overexposed to noise, and not providing emergency eyewash and shower facilities.
- Ogden International, Inc., of Pawtucket, R.I., \$258,300 for alleged failure to safeguard workers against falling debris and falls of up to eight stories from a partially demolished building in Lawrence, Mass. OSHA's inspection uncovered employees working without fall protection, and workers not trained in fall hazards or the use of fall protection equipment or in how to recognize and protect themselves from hazards inherent in building demolition.
- Alexandra Construction and Epernay Design and Construction of Newton, Mass., and Northern Construction Dynamics of Hyde Park, Vt., \$224,000 for alleged willful violations following an accident at a high school construction project. A 55-foot steel column toppled over after it had been placed on its foundation as soon as the crane line holding it was released. Citations included allowing steel erection to begin before foundation material was sufficiently strong.
- Tyler Pipe Co., Tyler, Texas, \$196,000 for 13 serious violations, and four repeat violations. The serious violations address the company's failure to provide protection, including rescue and responding services for employees working in confined spaces. Other violations include failing to provide adequate fall protection.
- Continental Painting, Waterproofing & Restoration, Hollywood, Fla., \$158,500 after an employee plummeted to his death while working on a Jensen Beach, Fla., condominium. The company had failed to provide the employee with fall protection, OSHA said.
- Brave Harvestore, Inc., Menomonie, Wis., \$146,000 after an employee died while servicing a grain storage silo at a Boyceville, Wis., farm. Citations included allowing an employee to enter a confined space without appropriate equipment, including respirators, body harness and retrieval lines, and testing equipment to evaluate the atmosphere inside the silo.
- Peach State Roofing, Inc., Lawrenceville, Ga., \$141,000 after an inspection of a Loves Park, Ill., worksite revealed that the company allowed roofers to work at serious safety risk, including failing to provide PPE necessary on such jobs.
- Wyman Gordon Forgings, Houston, \$138,000 for 44 alleged serious in-plant violations involving, among other infractions, failure to provide employees with PPE and failure to implement lockout/tagout procedures for energized equipment.
- Atlantic States Cast Iron Pipe Co., Phillipsburg, N.J., \$130,000 following an accident in which an employee suffered an amputation of three fingers while helping another worker clean a cement mixer. The company did not conduct a periodic review of lockout/tagout procedures to verify that the procedures were being followed, and failed to provide and maintain required PPE, OSHA said.
- S&R Construction of Johnston, R.I.; Stanley Roofing Co. of Ipswich, Mass., and Bostonian Masonry Corp. of East Walpole, Mass., \$126,300 for failure to protect workers at a Shirley, Mass., school construction site against falls, cave-ins and other potentially fatal safety hazards.



Survivair Panther™ self-contained breathing apparatus with heads-up display

NEW PROTECTION

from page 5

Display (HUD) for its Panther™ self-contained breathing apparatus (SCBA). The new HUD offers a modern and reliable passive display that is easier to view than traditional chest-mounted pressure gauges, the company says. 888-APR-SCBA or bacou-dalloz.com.

FOR HEARING...

From **Bacou-Dalloz** is the Howard Leight SmartFit™ reusable earplug that uses advanced Conforming Material Technology™



Howard Leight SmartFit™ reusable earplugs.

to adapt its original form to the unique shape of the wearer's ear for exceptional comfort and a custom-like fit with an off-the-shelf product, the company says. The earplugs feature heat-activated materials that sense the contours of the user's ear canal and adjust their shape accordingly. 877-618-1905 or bacou-dalloz.com.

From **Mine Safety Appliances Co.** is the ClearCommand® HCS helmet communications system. Because the system uses a special microphone, the wearer's voice is transmitted loudly and clearly even in noisy environments, the company says. A flexible boom ear speaker provides clear audio directly to the wearer's ear to maintain almost hands-free communications, according to MSA. 800-MSA-2222 or msanet.com.



ClearCommand® HCS from MSA

FOR THE HANDS AND FEET...



LaCrosse Safety rubber waders.

From **LaCrosse Safety and Industrial** are three new styles of heavy-duty rubber waders. The premium chest wader is available in steel toe/steel mid-sole or plain toe. The steel toe/steel mid-sole wader provides puncture, impact and compression resistance. The Premium 32-inch hip wader has a rubber-reinforced leg and skirt that provide extended comfort, and the "tractor-tread" outsole gives all-terrain traction. 800-557-7246 or lacrossesafety.com.

From **Magid Glove & Safety Manufacturing** are new styles of Kevlar® cut- and flame-resistant gloves. Kevlar Armor gloves are made with new yarn that provides more cut resistance than standard Kevlar gloves, according to Magid. Kevlar seamless terrycloth machine knit gloves reduce hand fatigue and provide added comfort. 800-444-8030 or magidglove.com. ●

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SAFETY EQUIPMENT

Works for You

Editor's Note: *Protection Update* welcomes contributions from readers for our regular "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, or mail them to the Editor, *Protection Update*, International Safety Equipment Association, 1901 N. Moore Street, Suite 808, Arlington, VA 22209. Photos are welcome.



Sweeping Statement About Head Protection

Guillermo Balboa, an experienced technician with a Fort Worth area maintenance crew, was preparing to clean up sand and salt used during icy conditions on I-280. Because his "shoulder broom" had an open cab, Guillermo donned a reflective vest and hardhat before settling behind the controls. As he began working, a car swerved around a trailing shield vehicle into the broom, spinning it violently. Guillermo's head hit a metal pipe on the sweeper, cracking his helmet open. Stunned, he unbuckled his safety belt and lurched to the ground, where he collapsed — shaken and jolted but with no visible injuries. Guillermo was thankful that he followed Texas Department of Transportation (TxDOT) rules requiring employees operating open-cab equipment to wear hardhats. (Thanks to Michael Peters of TxDOT's Fort Worth District for sharing this story about a very smart worker.)



Cracked helmet — intact head



All Decked Out for Fall

Ken was part of a four-man crew removing old gypsum decking at a concrete manufacturing plant. As they took out a panel and ball-beam supports, Ken stepped on a rusted support and fell through the roof. His fall protection locked immediately, arresting his fall. A co-worker assisted Ken back onto the roof shaken, but unhurt. MightyLite Lifeline by the Miller Fall Protection Division of Bacou-Dalloz, bacou-dalloz.com.



INTERNATIONAL
SAFETY EQUIPMENT
ASSOCIATION

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