

Firefighter credits Cairns 1010 helmet with saving his life



The Perry Hi-Way VFD in suburban Erie, Pa., received a "car into a building" call on March 10, 2003. Chief Kip Hayford recognized the address as a popular restaurant only minutes from the firehouse.

Apparently a driver had popped the clutch on a car parked near a glass-and-aluminum roll-up door. The car lurched forward, crashing through the door and sending empty tables flying. Arriving on the scene, Hayford, a fulltime paramedic, was relieved to see that no one was injured.

Part of the door rested on the roof of the car. While Hayford's crew stabilized it and checked for fuel leaks and structural damage to the building, a tow truck arrived to remove the car.

"Rather than just hook onto it and yank the car out, let's try to get the door off of it," instructed Hayford, trying to minimize further damage.

Two steel cables attached to heavy coil springs manage the weight of

the door while opening and closing it. Both were still connected, but only one was taut. Hayford needed a handhold, so he cut an L-shaped section out of one of the door panels. The loose cable was attached to the section.

"The maintenance worker at the restaurant told me the springs worked independently," said Hayford. "He was wrong."

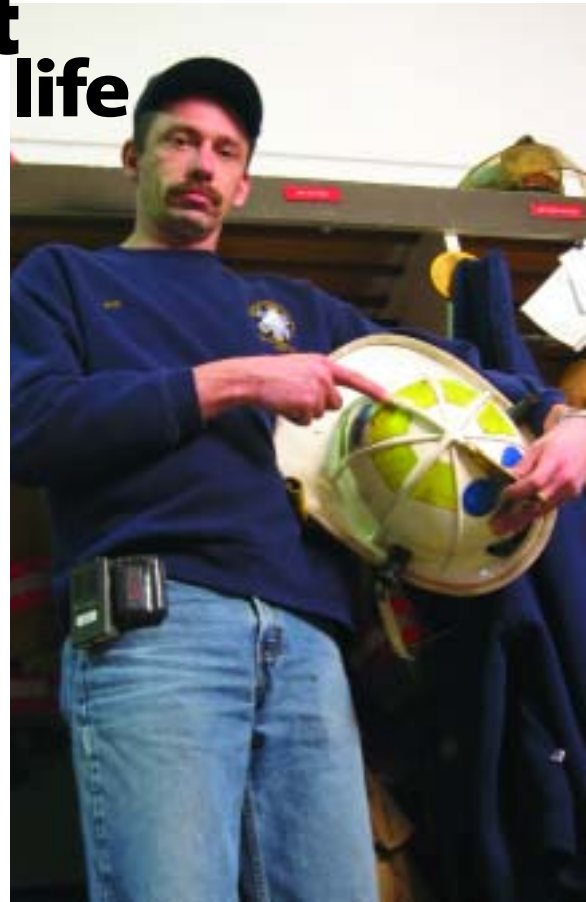
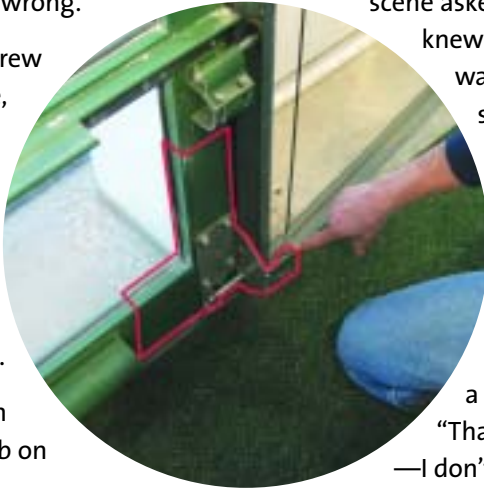
When Hayford's crew cut the taut cable, the loose one shot up to the ceiling, snapped, and shot the L-shaped section at Hayford's head.

It hit with enough force to crush a rib on the dome of his CairnsHELMETS® 1010 Fire Helmet.

"Everybody assumed that I was injured," said Hayford. "It felt like the roof was coming down."

Hayford examined his helmet on the spot and noticed, "It had a little chunk taken out of its rib." Looking at the helmet's ratchet system, Hayford realized just how hard he'd been hit. The force of the impact had sheared the Nomex material stitching that attaches the ratchet assembly to the helmet's bump cap.

Firefighters and paramedics on the scene asked Hayford if he knew what hit him. He wasn't sure. They showed him the L-shaped section that he'd cut minutes earlier. "The helmet definitely saved my life," reflected a grateful Hayford. "That piece of metal—I don't know what it would have done to my head."



One of the paramedics was convinced. "You wouldn't be here today," he said, "if you hadn't had your helmet on." 📍

WSJ article

(continued from page 1)

Some examples speak for themselves.

- W.S. Darley & Co., a manufacturer of fire trucks and equipment for nearly a century, celebrated a drastic reduction in work days lost to accidents: from 51 in 2000 to only 4 days in 2001 and 9 in 2002 at the time of the writing. This improvement has, of course, "helped reduce [the company's] premiums sharply."
- In Salt Lake City, Bodell Construction Co. cut its amount of lost work days nearly in half when they implemented drug testing, training to avoid accidents, and making accident investigations the responsibility of job superintendents.

Both companies say these impressive improvements are due to newly hired full-time safety managers, who virtually pay for themselves through the reduction in insurance premiums they helped bring about.

It's true. Bailey says that "paying for a consultant or . . . a full-time safety manager [can] actually save you money," but only if he or she is given "organizational credibility," i.e., visible support from company leaders as well as the authority to do things like shut down production or order a process changed.

But, with tough economic times and rising insurance premiums, are there other ways to increase workplace safety and save your company money, without capital expenditures? To answer this question, especially for smaller companies, which

unfortunately "account for a disproportionate number of worker deaths," Bailey offers some self-help methods.

- Get free advice from your insurer on ways to improve safety. "Ask insurers how much you would save on premiums with an improved safety record," adds Jim Hatherley of Liberty Mutual Group.
- Check out OSHA's web site, www.osha.gov, for ideas and helpful resources.
- Try rewarding employees with financial incentives such as profit-sharing plans for their improved safety performance.

Bailey also reminds us that "a safer workplace is often a more profitable and better-run company," because it has eliminated things like clutter, inefficient production lines, and improper or unsafe equipment. 📍

Jeff Bailey, The Wall Street Journal, 8/27/02, page B6. Copyright 2002, Dow Jones & Company, Inc.

Gas Mask Standard

(continued from page 1)

requirements of the standard. There will probably be a requirement for marking the facepieces, which is not yet known.

Q: Can we use our current masks for some other use?

A: Recent terrorist events have called attention to the need for all aspects of "Readiness" in order to facilitate the best actions of "Response, Rescue, and Recovery." General respiratory protection is an important part of "Being Ready." Most masks are approved with a variety of filters and cartridges which would be appropriate for toxic materials other than chemical warfare agents. Most government agencies are incorporating existing devices into their overall Readiness plan.

Q: What's the difference between MSA's current mask and the new one?

A: The Millennium® Gas Mask is a commercial version of the military mask that MSA sells to the US Air Force and Navy. We have done extensive preliminary testing and believe that the mask will exceed the performance requirements of the

CBRN Standard. There may be a marking requirement that is not on the current mask. We expect that to be addressed with upgrade kits. The facepiece part of the mask should remain the same, but it would require a new, larger canister.

Q: How long will it take for MSA to have a NIOSH-approved CBRN gas mask?

A: MSA's extensive experience in the manufacture of gas masks and canisters for the military is a notable advantage. We have applied to submit a product to NIOSH so that we can achieve certification as quickly as possible. The NIOSH certification process traditionally takes 90 to 120 days. Because of NIOSH's extensive testing requirements for these devices, we expect that you will see approved MSA products available during the third quarter of 2003.

For more information about products and literature, contact your MSA-authorized distributor or MSA's Customer Service Center at 1-800-MSA-2222. You may order MSA's "CBRN Primer" and other literature by using the FAX-BACK form on page 8. 📍



CSC is SMM's "Team of the Year" for 2002!

SALES AND MARKETING MANAGEMENT MAGAZINE'S (SMM) 2002 "Customer Service Team of the Year" is none other than MSA's!

"The SMM judges look for customer service teams that exceed customer's expectations," explained Marlene Grasha, supervisor of the technical services group. "This award validates what I've always known—we've got a great team!"

SMM magazine is headquartered in New York. "They were especially impressed with our response to 9/11," added Rich Morris, who serves

as North American director of customer service.

SMM's judges also look at training, strategy and tracking. Is the CS team committed to continual improvement? Does the CS team embrace the company's service philosophy? Do the numbers show their success?

In the case of MSA's team, the answer to all questions is a resounding "yes!" 🧑‍🔧



Two new consumer products, represented by SAFETY WORKS' Best

Bob Fulford's outfit, Fulford and Associates, is making the world safer, one retailer at a time.

Thanks to him, do-it-yourselfers and professional contractors in Ohio, Kentucky, and Western Pennsylvania are getting their hands on MSA Safety Works products a little more easily these days.

Those hands will be safer too. Safety Works' new Hands-Off™ Chisel Grip protects them by providing a secure grip from a safe distance. When the chips start flying, new Padded Browguard Safety Glasses will help prevent eye injuries.

From his base in Columbus, Ohio, Fulford has

represented MSA by improving sales with existing retailers, attracting new outlets, and increasing MSA's share of the consumer safety market.

MSA's Safety Works sales team recognized Fulford's accomplishment by naming him their "Manufacturer's Representative of the Year for 2002." He's a great example of MSA Safety Works' continuing commitment to excellence in people and products.

You can rely on people like Bob Fulford to represent you as a home user of MSA's eye-wear, respirators, hearing protectors, hardhats, and other products. Just visit your local retailer or www.MSASafetyWorks.com. 🧑‍🔧



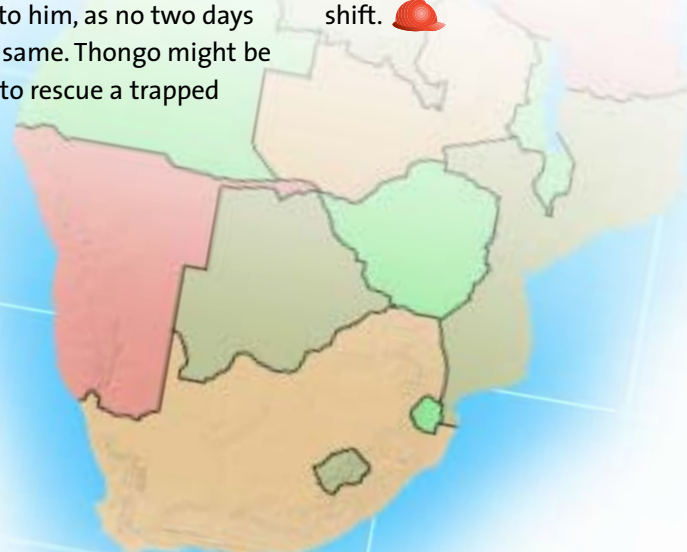
AFRICAN petrochem plant emergency workers use MSA

Firefighting teams play a crucial role in ensuring the safety of the over 6,500 people who work at a major petrochemical manufacturer in Secunda, South Africa. They work in firefighting and rescue roles, and are also qualified to deal with medical emergencies.

Joe Thongo, part of a 90-strong firefighting team, has worked here for 20 years. The unpredictability of the job appeals to him, as no two days are ever the same. Thongo might be called upon to rescue a trapped

worker, treat injuries resulting from a minor accident, contain a hazardous material spill, or fight a blazing chemical fire.

Thongo's daily goal is to ensure the safety and health of his coworkers. His high-quality protective clothing and gas detection equipment from MSA Africa protect him and give him confidence to do his job, so he can return home to his family at the end of the shift. 🧑‍🔧



Chemgard® Monitoring System helps keep L.A. safe

The Los Angeles County Department of Public Works (LADPW) has some pretty daunting responsibilities when it comes to water management.

Integral to the storm water management system are large networks of storm water pump stations, used to handle heavy rain runoff. These enclosed pump stations are driven by combustible natural gas-powered engines that require methane monitoring to ensure worker and facility safety.


Storm water pump stations also need to be monitored for potentially high LEL (Lower Explosive Limit) conditions caused by illegally dumped waste solvents and other combustible compounds that are carried in with the storm waters. (Two examples of land use that generate highly contaminated runoff are fueling stations and airport de-icing facilities.)

So, when the LADPW needed the best permanently installed instruments to

monitor for methane and hydrocarbons in their storm water pump stations, they turned to MSA's multi-point Chemgard® Photoacoustic Infrared (PIR) Gas Monitoring System. Although this high-performance gas detection method is considered low-

cost compared to other systems, the PIR sensing technology is extremely stable. In addition to this system operating for months with virtually no zero drift, the PIR technology greatly reduces interference effects from background gases and humidity.

This Chemgard Monitoring System even detects minor changes in hydrocarbon levels to alert operators of spills into the system. The Chemgard can be configured to detect from parts per million (PPM) up to 100 percent for nearly 100 major industrial compounds, including 100% of the LEL for combustible gases, including methane.

For more information about the Chemgard PIR Gas Monitoring System and how it can be incorporated into your application, call 1-800-MSA-INST, or log on to www.MSAGasdetection.com. 

A FEW FACTS . . .

For flood control, the LADPW operates and maintains 15 major dams, about 450 miles of open channel, almost 2,500 miles of underground storm drains, 70,000 street drains, about 280 sediment entrapment basins and 218 concrete stream bed stabilization structures, 33 pumping plants, and numerous county support facilities.

Yearly, the Watershed Management Division conserves about 220,000 acre-feet of local storm water runoff in L.A. County that would otherwise waste to the ocean. This amount, valued conservatively at over \$73 million, consists of direct storm runoff and post-storm releases from the dams.

—LADPW website fact sheet



Safety gear protects workers, guards the business

Beware of the voracious Caribbean predator known as the Pacific White. It devours everything in its path, and few phytoplankton escape. Is the Pacific White a shark? No, it's a Jumbo Shrimp.

And an abundance of Jumbo Shrimp calls for personal protection and detectors from MSA.

Much of the US shrimp supply doesn't come from open ocean, but from inland shrimp farms operated by C.I. Oceanos S.A. of Cartagena, Colombia. These "farmed" shrimp grow in a swirling soup of nutrients that keeps them active and fit. Intentionally or not, shrimp frequently attack humans. They leap from the water and cause nuisance injuries when bony spines near their mouths prick poolside workers.


That's one of the reasons that, as in other industries, complete head protection is an absolute must in the shrimp business. Shrimp farm workers wear MSA's V-Gard® Helmets

with Defender® Faceshields and Sound Control™ Hearing Protection.

But there are greater hazards. Oceanos ships over \$22 million of shrimp a year. To keep their product fresh, they pack it in ice they make themselves. And workers in their refrigeration plants count on MSA's FiveStar® Alarm for early warning of ammonia leaks.



Reliable communication between Oceanos' Atlantic and Pacific coast operations is crucial, so Oceanos owns and maintains several communications towers. The workers who service the towers rely on MSA fall protection.

Urigo Ltd., a prominent South American company that has represented MSA products for over 30 years, supplies a complete range of safety products and equipment to Oceanos. Thanks to them, it's relatively safe to go into the water! 



Snaps' big adventure



Snaps is one lucky cat, according to his owner, 16-year-old Mary Ferchak of Monroeville, Pa. His local fire and rescue department used their Evolution® Thermal Imaging Camera to locate and rescue him from living "in the ceiling"!

Read the complete story online at: www.MSAFire.com > TIC > News & Info > TIC News > "Evolution 4000 TIC Saves Cat." 





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UPCOMING EVENTS IN 2003

We'll see you at these upcoming trade shows:

ASSE
June 22-25, 2003
Denver, Colorado

Firehouse Expo
July 24-26, 2003
Baltimore, Maryland

National Hardware Show
August 10-12, 2003
Chicago, Illinois

Fire-Rescue
August 22-24, 2003
Dallas, Texas

National Safety Congress
September 8-10, 2003
Chicago, Illinois

AREMA
October 5-8, 2003
Chicago, Illinois

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MSA has been protecting your work force since 1914. Headquartered in Pittsburgh,

Pennsylvania, MSA is the world's largest company dedicated to providing a complete range of top-quality equipment and systems for worker and plant protection. Our products are used in firefighting, light and heavy industrial manufacturing, construction, hazardous materials/abatement operations, mining, offshore and refinery sites, nuclear and non-nuclear utilities, shipbuilding, agriculture, and pulp & paper industries.

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