

THE MUNICIPAL

The Premier Magazine For America's Municipalities

August 2016

PUBLIC SAFETY



INSIDE:

Emergency preparedness strategies

Traffic enforcement caps

Radio hobbyists to the rescue

PRSRST STD
U.S. POSTAGE
PAID
Bolingbrook, IL
Permit No. 1839

 aladtec®



2015 INTERNATIONAL CODES®

Is your community protected by the most current construction codes?

The 2015 International Codes:

- Are the only set of coordinated construction, fire and energy codes.
- Offer design flexibility without compromising safety.
- Provide clarity so the code is applied in a uniform manner.
- Encourage innovation and affordability while protecting the health and safety of the public.

16-12595



Learn how to improve construction in your community using the International Codes

1-800-786-4452 | www.iccsafe.org/2015mun

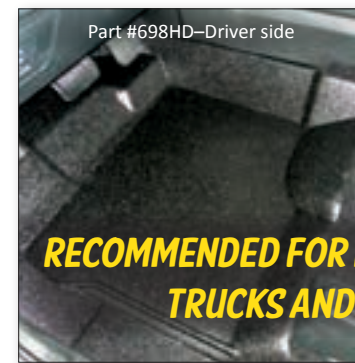
GREAT FOR CONTRACTORS AND MUNICIPALITIES

Weatherboots®

AN IPV COMPANY
The original custom fitted footwell liner

Weatherboots HD ...

THE ULTIMATE FOOTWELL PROTECTION FOR COMMERCIAL FLEET VEHICLE APPLICATIONS

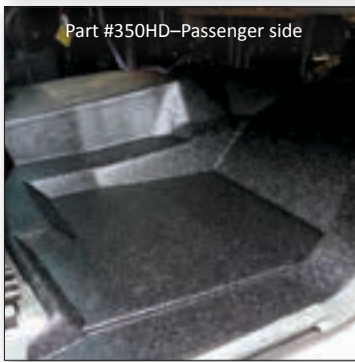


RECOMMENDED FOR RUBBER FLOORED WORK TRUCKS AND FLEET VEHICLES

Weatherboots is proud to offer a heavy duty option to our original product. These premium all-weather footwell liners were developed for truck owners who need to protect their vehicles from the most extreme conditions.

Weatherboots HD offers:

- Weatherboots exclusive design. Your footwell liners stay in place even in rubber floored work trucks
- Precision fit offered only by original Weatherboots
- No warpage
- No curling at the edges
- High quality ABS plastic
- Tough, durable, non-slip polyurethane coating
- Clean Weatherboots HD footwell liners with a high-pressure sprayer and detergent
- Weatherboots HD carry a 3-year limited warranty



Weatherboots HD Part Numbers

Make	Model	Year	Front Only	WB HD Part #
Dodge	Ram Pick-up	2009-2016	Front	280HD
Dodge	Ram Pick-up	2002-2008	Front	270HD
Ford	F150	2015-2016	Front	698HD
Ford	F150	2004-2014	Front	598HD
Ford	Super Duty	2013-2016	Front	265HD
Ford	Super Duty Manual 4wd	2013-2016	Front	265MHD
Ford	Super Duty	2011-2012	Front	275HD
Ford	Super Duty	2008-2010	Front	285HD
Ford	Super Duty	1999-2007	Front	295HD
GM	Pick-up/SUV	2014-2016	Front	390HD
GM	Pick-up/SUV	2014-2016	Front	390MHD
GM	Pick-up Wide	2014-2016	Front	390WHD
GM	Pick-up/SUV	2007-2013	Front	380HD
GM	Pick-up/SUV	1999-2006	Front	350HD

Weatherboots HD is a special order item. Orders accepted by telephone only. Call for pricing and availability.

Toll free: 844-512-9010
Phone: 630-513-9010



Shipment by UPS or FedEx/ Most major credit cards accepted



Weatherboots products are proudly made in the USA

CONSTRUCTION EQUIPMENT, INC.

Bigfoot

OUTRIGGER PADS



We also carry:

Bigfoot® Outrigger Pads
 are manufactured in USA using plastic manufactured in the USA unlike many of our competitors that use imported plastic.

International **815-527-7127 • 888-743-7320**
www.outriggerpads.com
bigfoot@outriggerpads.com



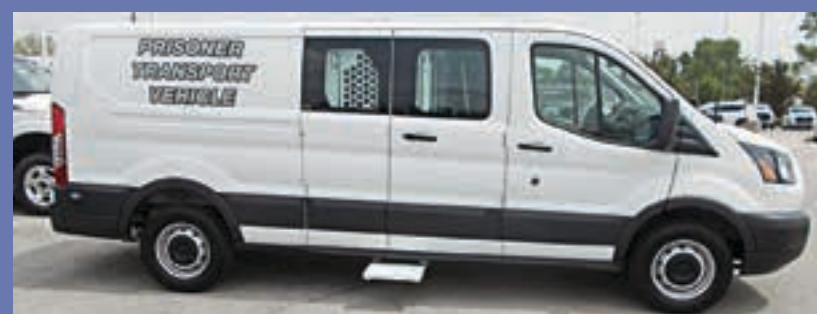
www.AndyMohrFord.com

**ANDY MOHR FORD
 COMMERCIAL DEPT.**
 PLAINFIELD, IN (317) 279-7140
CONTACT
KENT GOLDMAN fleet9000@aol.com
TOM DATZMAN TomHdatzman@aol.com



MTE Prisoner Transport Vehicle Specialists

Supplying Detainee/Prisoner Uplift Vehicles to Select Transportation Companies Nationwide
\$37,935.00 • Government Pricing for Indiana



The MTE Ford Transit (Low Roof) Transport Package

- Interior Front Bulkhead, Perforated Metal, Attached Cargo Area, Curb Side Second Door
- Interior Second Bulkhead, Perforated Metal
- Interior Third Bulkhead, Exit/Entry Door Constructed of Steel Frame and Perforated Metal
- First Detainee Compartment – (1) Bench Facing Front of Van
- Second Detainee Compartment – (2) Benches Facing Each Other, Running the Length of Van Interior – Streetside Bench Lower Framing to Have A/C Guard
- Interior Powder Coated White
- Painted, Pooched-Style Exterior Step and Side Entry Door
- Painted, Pooched-Style Exterior Rear Step, Folding
- A/C Covers Upper and Extended Lower
- Gun Rack with 8-Second Delay, Switch on Dash
- Clear Spit Shield Mounted in Front of Bulkhead
- Rear Bump Stop on Rear Door
- Light Guards for Dome Lights
- Steel Roof Panels
- Includes Segregation Cage
- Installation of Above Listed Equipment



www.monroetruck.com



Contact Kent Goldman of Andy Mohr Ford for All
 Your Security Transport Needs!
 (317) 279-7141 • fleet9000@aol.com

Andy Mohr Ford
www.AndyMohrFord.com

POLICE VEHICLES



2016 FORD POLICE INTERCEPTOR UTILITIES



2016 FORD POLICE INTERCEPTOR SEDAN
 Indiana government price
STARTING AT \$22,990



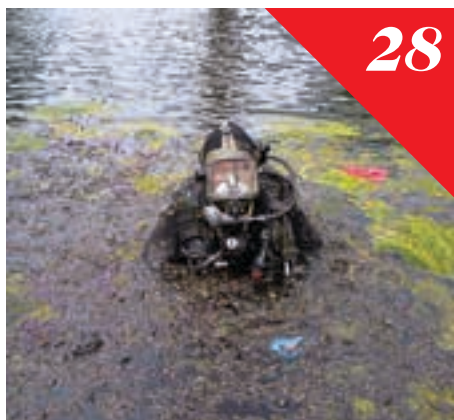
2016 POLICE INTERCEPTOR UTILITY
 Police package, Indiana government price
START AT \$24,265

CONTACT KENT GOLDMAN AT 317-279-7141



22

18 Focus on Public Safety



28

20 Focus on Public Safety: Support piling up for traffic enforcement caps

22 Focus on Public Safety: The perennial challenge of integrity

24 Focus on Public Safety: Keep calm and be vigilant — Helping the public remain aware of emergencies

28 Focus on Public Safety: New developments in underwater gear

32 Focus on Public Safety: Back-to-basics communication during disaster



36

36 Solid Waste & Water Utilities: Diluting a damaged legacy

39 City Profile: Flint, Mich. — Pursuing a ‘parallel narrative’

44 Solid Waste & Water Utilities: Greensboro’s pilot pipe bursting program

48 Streets & Snow: Taking it to the streets — Public design process cultivates buy-in for road project

52 Firefighting & EMS: Community risk reduction in the fire service — One department’s approach to keeping residents fire-safe



39

ON THE COVER

Supervisor-employee communication has never been simpler or more clear than it is with an Aladtec workforce management system. Aladtec has a solution for staff scheduling, online forms, records management, time/attendance, tracking certifications/licensing and other employee management needs. Visit www.aladtec.com to see how it can work for you. (Photo provided)



Photo 21: Shutterstock, Photos 18, 28, 36 & 40 provided



It's a No-Brainer!



Approx. **\$1,100.**
International 4300
OEM - Steel Tank

AT-IN-3002



\$582.
55 Gallon Aluminum

We Make And Repair Aluminum Fuel And Hydraulic Tanks
Round, Square, Rectangular and “D” - All Openings to your specifications

All Tanks FMCSA Approved

MADE IN THE USA with PREMIUM American Materials



AT-GM-4001

\$720.86
GMC style 54 Gallon Tank



AT-IN-2001

\$661.28
International style
50 Gallon Tank

As a factory-direct replacement and custom tank manufacturer, Alumitank can produce a wide variety of tanks in many configurations and quantities. Serving DOTs since 2001, Alumitank is the preferred choice of municipalities throughout the Midwest and across the nation.

ALUMITANK

THE FUEL TANK SPECIALISTS

www.alumitank.com

ORDER WHOLESALE FACTORY DIRECT!

Call Us Toll-free At **1-800-652-6630**


publisher
RON BAUMGARTNER
rbaumgartner@the-papers.com



editor-in-chief
JERI SEELY
jseely@the-papers.com




editor
JODI MARLIN
jmarlin@the-papers.com



publication manager
CHRIS SMITH
chris@themunicipal.com



account executive
NANCY BUCHER
nancy@themunicipal.com



account executive
REES WOODCOCK
rees@themunicipal.com



graphic designer
RICHARD AGUIRRE
raguirre@the-papers.com



business manager
COLLETTE KNEPP
CKnepp@the-papers.com

director of marketing
KIP SCHUMM
kschumm@the-papers.com

mail manager
JUSTIN BAILEY

THE MUNICIPAL

PO Box 188 • 206 S. Main St., Milford, IN 46542
866-580-1138/Fax 800-886-3796
Editorial Ext. 2392; Advertising Ext. 2408, 2505, 2485 or 2489
WWW.THEMUNICIPAL.COM



CIRCULATION AUDITED BY CVC
VERIFICATION COUNCIL

The Municipal does not knowingly accept false or misleading advertising or editorial content, nor does The Municipal or its staff assume responsibility should such advertising or editorial content appear in any publication. The Municipal reserves the right to determine the suitability of all materials submitted for publication and to edit all submitted materials for clarity and space. The Municipal has not independently tested any services or products advertised herein and has verified no claims made by its advertisers regarding those services or products. The Municipal makes no warranties or representations and assumes no liability for any claims regarding those services or products or claims made by advertisers regarding such products or services. Readers are advised to consult with the advertiser regarding any such claims and regarding the suitability of an advertiser's products. No reproduction of The Municipal is allowed without express written permission. Copyright © 2016.

Departments



“So many talented folks came here and designed courses.”

- 10** **Editor’s Note:** *On public safety and preparedness*
- 12** **From the Cover:** *Aladtec — Employee management, simplified*
- 14** **‘World Capitals’:** *‘Golf Capital of the World’ — Myrtle Beach, S.C.*
- 16** **Know Your Founder:** *Noah Harris — Gas City, Ind.*
- 56** **Conference Calendar**
- 57** **Product Spotlight**
- 58** **Company Profile:** *Sell assets without the hassle — Where to begin when there’s extra or aging equipment to sell*
- 60** **Classified Ads**
- 61** **News & Notes**
- 63** **Product Snapshots**
- 66** **Guest Column:** *The Vigiles of ancient Rome — Historical roots of the public police and firefighting service*
- 68** **Top 10:** *The Safest Cities in America*
- 69** **Advertiser Index**



St. Louis

HERE WE COME

OCTOBER 5-8, 2016
AMERICA'S CENTER CONVENTION COMPLEX



Join thousands of municipal and park professionals at the 2016 NRPA Annual Conference to discover the latest products and services in your field, energetic networking activities and education sessions focused on creating vibrant, healthy communities.



WWW.NRPA.ORG/CONFERENCE2016

On public safety and preparedness



Jodi Marlin | Editor

SHORTLY AFTER THE EDITORIAL deadline for this issue of *The Municipal*, a sniper (or snipers) climbed a Dallas parking garage and carried out what was reportedly a vocalized plan to “kill white people, especially white police officers.”

Perhaps the thing that frightens me most about the targeted execution of four representatives of law enforcement and a transit authority official is that mounting tensions all indicated such an incident was brewing. Exponentially increasing distrust of police officers on the part of the general public is manifesting itself in more visible and more vocal ways every day. Departments across the country have doubled down on efforts to build positive relationships and goodwill with those they serve, but the campaign to vilify law enforcement continues unabated.

I’ve often wondered where the release valve is located. Most likely, I’m not the only person asking that question.

In the aftermath of such a tragic incident, I hope this magazine’s coverage of other topics related to law enforcement doesn’t seem to trivial. In this edition we direct attention to some of the other issues making the public safety professions in some cases easier, in one case more difficult, today.

For instance, advancements in underwater technology are increasing the fruitfulness of search and rescue in a near-blind environment. Side-scan sonar technology in particular is more powerful and less expensive than ever, tallying it among the reasons that law enforcement dive agencies are marking up wins.

Another exciting piece of news is the progress being made on FirstNet. The national public safety broadband is likely years from

going live, but the promise it holds for communication during large-scale disasters as well as day-to-day emergency response is exciting. No less encouraging is the fact that, unlike more than a few other federal mandates that would in theory address significant municipal concerns, there’s some funding behind this one. Whether it’s enough to take the project to fruition is debatable, but at least it’s off the ground and gaining traction from stakeholders across the country and at various levels of government.

We also include, this month, a perspective on a different law enforcement tragedy: the suicide last year of Fox Lake Lt. Charles Joseph Gliniewicz. Written by a member of the Illinois Truck Enforcement Association, the blog post appears on page 22 and makes the point that even in a recent case of obvious wrongdoing and guilt that led to an officer’s suicide, such situations are little more than tragedies that extract multiple and very high prices.

In anticipation of *The Municipal*’s September topic of special coverage, “Going Green,” I’ve also been keeping one eye on the weather as of late. On June 5 I

“Mounting tensions all indicated such an incident was brewing.”

watched the earliest third tropical storm of the year, Colin, develop off the coast of the Yucatan peninsula and plot a course toward Florida and the East Coast of the U.S. Fortunately, Colin was too weak to cause widespread flooding or damage.

You’ve heard climate change postulations that attribute the increased number and higher

intensity of tropical storms and other changes in the weather pattern to warming temperatures and changes in the jet stream. After Katrina, Sandy and a handful of ice storms that have paralyzed the Southeast in recent memory, it does seem as though a paradigm shift is taking place.

To protect both residents and expensive infrastructure, cities are heeding the warning. It was a recent email from the Centers for Disease Control that reinforced for me how the phrase “resiliency and recovery” has even worked its way into the public lexicon.

In the press release, Dr. Stephen Redd, director of the CDC Office of Public Health Preparedness and Response, recounted discussions from the April National Association of County and City Health Officers Preparedness Summit in Dallas that emphasized partnerships as the way to build resilient communities, communities that keep commerce flowing and residents living and working in the places they call home even after a disaster experience.

We’ll look more closely at this and other “green” issues next month. In the meantime, take care during the dog days of summer. A side note: After four years of the pleasure of covering topics pertaining to municipal leadership and the management of municipal departments, with this issue I pass the editorial baton to talented coworker Sarah Wright. You have enjoyed her articles in the magazine for some time now, and behind the scenes she has also served, most capably, as its copy editor. The *Municipal* is in steady hands with her as its editor and with Chris Smith, *Municipal* account executive, as its new publication manager. I hope *The Municipal* has been of interest and of service to its readers during my tenure, and I expect both will continue to grow under their leadership.

All the best to *The Municipal* readers. **M**



Shutterstock photo

ClearSpan fabric structures
1.866.643.1010 ClearSpan.com/ADTM

**WE MANUFACTURE • WE INSTALL
WE SAVE YOU MONEY**

BUILDINGS OF 1,000 USES

MADE IN USA

Fabric Structures Natural Light & Low Cost Per Sq Ft	Hybrid Buildings Benefits of Metal & Fabric Buildings	Foundation Solutions Build Anywhere & Quick Construction
--	---	--

MUNICIPAL SPECIALISTS SIMPLIFY THE BUILDING PROCESS

SHOULDN'T YOUR PEOPLE HAVE THE SURE FOOTING OF LAW ENFORCEMENT?

ORIGINAL S.W.A.T.

Our boots are designed for law enforcement but people with all kinds of dangerous jobs have trusted Original S.W.A.T. boots because of their durability, comfort, and performance.

Call today and mention this ad in *The Municipal* to find out about a free boot wear test opportunity.

1888.476.7700 www.originalswat.com

Aladtec: Employee management, simplified



By JODI MARLIN | The Municipal

IN THE PAST, PUBLIC SAFETY AGENCIES with more than 15–20 employees struggled to keep track of scheduling, certifications, licensing, requests for time off, shift trades, office forms and other workforce management processes manually — often with pencil and paper, a whiteboard or a spreadsheet accessible from a single computer terminal at a single location. Each process was highly inefficient and took a large amount of time. Mistakes were easily made.

Running a public safety agency means focusing on serving the public, not spending several hours a week scheduling staff, filling out forms or trying to find relevant paperwork.

The workforce management solutions developed by Aladtec streamline the mundane aspects of public safety management by automating routine tasks, organizing valuable information and basically eliminating the pain points associated with many

administrative duties. And in step with 21st century technology, Aladtec's online employee scheduling and workforce management system is completely mobile. It is accessible 24/7 from anywhere, on any computer, smartphone or other mobile device with an Internet connection.

Captain Rob Brown, of the Goffstown, N.H., Police Department, heads up an agency that, like many, at one time kept track of employees' shift schedule on an Excel spreadsheet.

"It was very time-consuming, and we had no paging or immediate contacting capabilities. Aladtec's paging feature is a huge plus. We also like the repeat rotation feature for advanced scheduling," he said. "Our officers know what the coverage is and what is needed months and months in advance, so they can determine if and when they need to request time off.

"We really like the fact that we can access the schedule remotely since Aladtec is an

LEFT: The workforce management solutions offered by Aladtec streamline communications, scheduling, recordkeeping, payroll, training levels and much more. (Photo provided)

BELOW CENTER: Shift trades are made easily and in real time with Aladtec. Employees can access the schedule on any mobile device, and administrators are in the loop every step of the way. (Photo provided)

FAR RIGHT: In an ideal world, the online employee scheduling system would integrate seamlessly with a customizable member database, a customizable form system, document storage and a variety of timesaving communication tools. It would automate the mundane and error prone portions of the workforce management process. With Aladtec, the ideal world has arrived. (Photo provided)

online system," Brown added. "The crew can see who has what for shifts or detail assignments and request swaps from home or anywhere."

Employee requests are updated immediately on the administrators' home page, where a dashboard of pending trades, sign-up requests, requests for time off, upcoming shift schedules and agency events are posted immediately — along with current online discussions. With this prominent array of information, not only are administrators apprised of pending change requests in real time, but they can approve or deny them in an instant and the shift schedule is always accurate and up to date.

Because it manages such a large number of employee issues and saves a tremendous amount of time, Aladtec customers say the system pays for itself quickly.

"As an organization, I estimate we're saving about 100 hours a month. Aladtec is really a

one-stop shop," said Landon Churchill, an engineer/EMT with Colorado River Fire Rescue, Rifle, Colo. "The online time-off and trade requests are amazing and very popular with the full-time staff. The mobile functionality makes it accessible to everyone, all the time, which is perfect for our volunteer and part-time staff. The forms feature is great and we use it for many documents such as time cards, vehicle maintenance, daily checks, award nominations and more. The staff loves not having to use paper forms anymore. Aladtec is amazing, compounded by the genuinely great people working there."

Since entering the world as a scheduling software solution, Aladtec has matured into a complete workforce management system capable of simplifying the responsibilities of administrators in the most challenging agencies. The company offers a flexible member database to track employee data, from training and continuing education to certifications and licenses. The Form Configurator feature allows users to create, submit, review and store any form they need within the Aladtec system. This is not only a green initiative, but by keeping forms online, they are quickly and easily accessible for whom-ever needs them.

But the benefits of switching to Aladtec go far beyond improving staff scheduling and maintaining online forms. It has a number of other well-integrated tools.

ADVANCED REPORTING FEATURES — Create and save your own custom reports and payroll exports from a wide variety of options and filters.

200 GB FREE ONLINE FILE STORAGE — Upload and share electronic files such as training materials, spreadsheets, forms, videos, photos, etc.

TIME CLOCK (with or without fingerprint scanner) — Use the optional time clock to track employees and easily compare scheduled time to actual worked time.

DISCUSSIONS — Conduct online discussions with your staff to review policies, conduct surveys, get feedback, etc.

PAYROLL INTEGRATION — Custom payroll exports are available for nearly any payroll service, including ADP, Paychex, Paycom, Intuit, CompuPay, Sage, Centerpoint, PeopleSoft, CheckMark, PayChoice, SSI, WinPay, Munis and more.

The fully editable home page can be customized for your agency, and access controls mean that security and restrictions based on rank and title are always maintained.

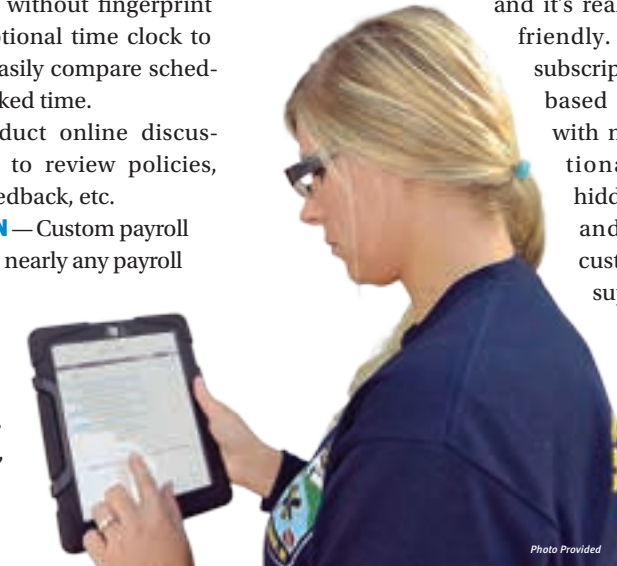
Since every agency is unique and requires its own variation of workforce management, the Aladtec system can accommodate endless variations of complex reporting, employee recordkeeping and schedule rotation requirements. Regardless of how unique each agency is, the one thing they have in common is a mandate to save money. Aladtec accomplishes this by controlling overtime.

"We've been able to cut our overtime costs by about \$10,000 per month (around 30 percent) since we began using Aladtec," shared Matt Leicester, former EMS captain, Johnston County EMS, Smithfield, N.C.

Providence College EMS in Rhode Island experienced an immediate change in overtime after adopting Aladtec's workforce management solution. "For the first time ever, I was able to run an entire month's schedule with no scheduled OT. This saved us about 25 hours in overtime," indicated Koren Kanadian, director of emergency management at the college.

Aladtec is purchased as an annual subscription based on the number of employees in the system. This makes it affordable for even small volunteer agencies. Additionally, subscription-based software is much easier to budget for than the large capital expenditure required for some systems. Aladtec provides training, tech support, system optimization and upgrades for customers at no additional cost.

"I chose Aladtec because I really like the functions of the system; and it's really user friendly. It's a subscription-based system with no additional or hidden fees, and their customer support is



Free demonstration: Try Aladtec on for size

The best way to see if Aladtec's system will work for you is to try it yourself — for free. Aladtec offers a free demonstration of precisely how the system will work in your particular setting. For a custom demo, call their customer support staff, and they'll set up a customized version based on your agency-specific requirements. By signing up for the free online demo, or the customized demo, you can quickly determine how an Aladtec workforce management system will impact your organization. Visit www.aladtec.com or call (888) 749-5550.



awesome. This made the system an easy sell to our administrative team. Over the course of a year, I suspect we will save the equivalent of one full-time salaried position and allow that staff member to complete other administrative tasks," explained Douglas E. Bitner, assistant chief, Holy Spirit EMS — South Division, Camp Hill, Pa.

Founded in 2005, Aladtec has become the leader in online public safety workforce management software. Nearly 100,000 people throughout North America rely on the system at over 1,600 organizations.

"We are very fortunate and honored to be a vendor for the public safety sector," shared David Feyereisen, cofounder and CEO at Aladtec Inc., River Falls, Wis. "We created our system to automate daily administrative processes and to reduce the error-prone aspects of crew scheduling and workforce management, allowing our customers to focus on their priority — the communities they serve." ■



'Golf Capital of the World'

Myrtle Beach, S.C.

Myrtle Beach, the largest and most prominent of a dozen communities nestled along the Grand Strand, a 60-mile stretch of pristine white sand beaches on the Atlantic coast, has leveraged its natural assets to become the unrivaled "Golf Capital of the World."

The city of 27,000 actually enjoys a twofer in the designation: It is also the "Miniature Golf Capital of the World."

The area boasts more than 100 popular championship-level golf courses, thanks to scenic surroundings, mild weather and the affordable cost of living.

"So many of the courses have a backdrop of the ocean," said Susan Phillips, director of marketing for the Myrtle Beach Area Chamber of Commerce. "We have a climate where you can golf just about year-round. And from a cost perspective, it's so reasonable to come here and stay."

Apparently the word is out. A million-plus visitors, from duffers to pros, visit the professionally designed courses to play more than 4 million rounds of golf each year. "We have something for every skill level," said Phillips.

Not bad for a recreational allurements originally intended to play second fiddle to the area's top nautically related attractions: fishing, swimming, boating and the like.

ABOVE & ABOVE RIGHT: A million-plus golfers a year visit the professionally designed courses of Myrtle Beach. The city also boasts an extensive collection of miniature golf facilities, adding to its reputation as a family destination. (Photos provided)

The golf industry started out slowly. Pine Lakes Country Club, Myrtle Beach's first golf course, opened in 1927. The next course wasn't built for another 22 years. Since then, however, burgeoning demand for the diversion spawned a rapid bloom of golf courses along the abundant scenic shoreline.

"Back then it was just a natural area for golf courses to grow," said Phillips. "So many talented folks came here and designed courses," including golfing immortals Arnold Palmer, Jack Nicklaus, Gary Player, Fred Couples, Davis Love and Greg Norman.

Myrtle Beach hosts several popular annual golf tournaments, including a preseason classic at the end of January; a Hootie and the Blowfish Pro-Am; a Memorial Day outing that includes more than 1,000 firefighters from around the country; a father and son classic that attracts 1,600 participants; and a world amateur tournament taking place this year from Aug. 29 to Sept. 2.

Before long, mini golf courses were constructed as an "out-growth" of the bigger game, according to Phillips. Competition to build the biggest, baddest course continues to this day. Course features include a 50-foot smoldering volcano; a three-story, multi-tiered waterfall; an 85-foot high 18th hole; tree houses; and caves and holes that traverse streams and wind around area lakes. One course begins with a train ride to the top of the mountain and players progress their way down the 18-hole course, finishing at the bottom. Other courses start at the bottom and work their way up the mountain.



The putt-putt course names beckon families to enjoy the adventure together: Hawaiian Rumble, Dragon's Lair, Molten Mountain, Professor Hacker's Lost Treasure, Captain Hook's, Runaway Bay, Shark Attack, Mutiny Bay and Gilligan's Island. Acing the 19th hole at Mt. Atlanticus earns a lifetime pass to the course.

Of course, tourists have to eat and sleep. The area's water sports and golfing attractions have spawned a proliferation of lodging and dining establishments.

The Grand Strand now boasts 425 hotels and 98,600 "accommodation units," from rustic cottages and mom-and-pop motels to cozy bed and breakfasts to elegant seaside resorts. Tourists can dine at the 1,800 full-service restaurants, featuring seafood, barbecue, home-style meals, regional specialties and international cuisine.



Other family-friendly amenities include more than 300 outlet stores, eight live theaters with more than 11,000 seats, theme parks, boardwalk promenades, an IMAX theater, aquarium and a NASCAR speed park.

Phillips offered a blueprint for municipalities seeking to carve their own brand in today's crowded field of tourist attractions. She particularly recommends a five-point assessment before embarking on efforts to implement and promote a unique municipal persona.

- *Be true to your destination and don't try to be something you're not. Focus and leverage what you do best.*
- *Assess your strength. What are your claims to fame? Accolades and awards (which can often be self-nominated) provide a great testimonial.*
- *Note your weaknesses. Is your brand sustainable? Is it something that can be promoted and enjoyed year-round?*
- *Research and know your competition. Who else has a similar brand and what have they done? Is there enough market interest for similar multiple brands?*
- *Are there any trends or other national, regional or local happenings that would align with your brand?*





"Once these questions are answered honestly and accurately, you can then determine if it makes practical business sense to go to the next step of the process, which is creating a business plan," said Phillips. ■

30 Years of Dependability.




Build something that is dependable and that becomes its reputation. So it is with Land Pride Folding Rotary Cutters. They're made in America's heartland with heavy-duty gearboxes, up to Cat 6 drivelines, and a variety of tire and axle configurations. Land Pride's family of Folding Cutters are built to last. More than just words, they are backed by a 1-year hitch-to-axle warranty and a up to a 7-year gearbox warranty.*

Whether you're the largest city or the smallest township, Land Pride has a deal for you. NJPA members receive great discounts and a quality product in quantities from 1 to 100. Find your local dealer at landpride.com and ask for an NJPA Quote.










www.landpride.com

*See your local dealer for complete warranty details.

OVER 300 PRODUCTS TO FIT YOUR LIFESTYLE

CONSISTENTLY LEADING THE WAY.

Noah Harris Gas City, Ind.

Meet a town founded, in a sense, by a natural resource: Gas City, Indiana.

Settled in 1867, for the first 25 years it was called Harrisburg after founder Noah Harris. Harris was a fur trader who became interested in real estate and the nursery business. The town hobbled along unremarkably during that time, with mild growth that yielded a population of 150 by the early 1890s. Then came the Indiana gas boom, and the character and name of the town changed for good.

The Trenton Gas Field, a 5,120-square-mile reservoir containing more than 1 trillion cubic feet of natural gas and approximately 1 billion barrels of oil, was discovered in 1876. Right in the center of that massive gas and oil field stood Harrisburg.

Industrial opportunists swarmed to the area to take advantage of the cheap and abundant natural resource. Factories sprang up almost overnight to process and manufacture products requiring a lot of readily available heat, such as glassworks and smelting operations. Among the signature enterprises was the Gas City Land Company, founded March 21, 1892. A few days later the 150 residents voted to change the town's name to Gas City.

"Boom Town" aptly describes both the derricks that soon dotted the area and Gas City's growth. Within a

few years the town swelled to more than 3,600 residents.

Within the first three months of the boom, eight companies planted their stakes in the town, along with a bank, opera house, hotels, rows of business offices and numerous homes. Residents flocked in so quickly they had to live in tents or shanties until their homes were completed.

Collateral attractions sprang up. A race track was built near the Missis-sinewa River that courses along the town's western municipal border, and the "Helen Boyd" steamed tourists up and down the river. Buggy trails meandered along the shoreline.

According to one legend, just about any resident of Gas City could go out behind his house, spear a metal pipe into the ground, touch a flame to the top and keep an ever-burning torch in his backyard. Gas pressure at points of extraction throughout the town exceeded 300 pounds per square inch.

But alas, it is said, all good things must come to an end. Conservation was unheard of in those days, and the continual, profligate use of the natural gas — 90 percent of the underground yield was vented unused — soon depleted the reservoir. The factories suffered



ABOVE: A Natural gas well dug circa 1885 during the Indiana gas boom in Kokomo, Ind. (Public domain image, wikimedia commons)

BELOW: A flambeau illustrated by Frank Leslie — Frank Leslie's Illustrated Newspaper (Public domain image, wikimedia commons)



inexorable one-by-one closures and Gas City Land Company formally dissolved in 1904. Two remaining glass factories closed their doors in the 1980s.

Gas City has admirably weathered its hardest times, and the town of now-6,000 people has once again become the fast growing municipality in Grant County. The municipality continues to hail itself as "a wonderful place to live." M

FIRE CAP PLUS

BETTER THAN FOAM!

Fire Suppression Products
www.firecapplus.com
866-871-9993

OWN A NEW HOTSY

NO MONEY DOWN & NO PAYMENTS FOR ONE YEAR!

EFFECTIVE THRU 8/31/16

Available to businesses under current ownership for at least 3 years and with credit approval. Offer valid in the U.S. only.

SEE THE POWER OF A HOTSY CALL FOR A FREE DEMO TODAY!

FIND YOUR LOCAL DEALER AT HOTSY.COM OR CALL 800.525.1976

Lock Out Tag Out Hasps and Locks
Direct from The Manufacturer!

- Alloy, Brass and Vinyl Clad.
- Printed warning message.
- From 1" to 2" with larger sizes available.
- 100's of keyed alike and keyed different key codes.

Call for specs on a wide range of special locks, hasps and seals.

LOCK AMERICA INC.
The Definitive Word in Locks

800-422-2866
Ph: 951-277-5180
Fax: 951-277-5170

9168 Stellar Court, Corona, CA 92883
www.laigroup.com
sales@laigroup.com

Focus on: Public Safety

SEARCH AND RESCUE TOOLS

600/1600 kHz

One of the newest models of side-scan sonar available to police, fire and hazmat dive teams operates on 600/1600 kHz and is ideally suited for customers who need to detect very small targets.

See story on page 28.



EMERGENCY MANAGEMENT

In order to prepare local entities to respond to natural disasters and other emergencies, numerous cities in every state in the U.S. employ directors of emergency management. A particularly larger number of cities do so in the following states.

Source: U.S. Bureau of Labor Statistics

States with the highest number of municipal or county directors of emergency management

1. California (820)
2. New York (610)
3. Texas (550)
4. Virginia (520)
5. New Jersey (470)



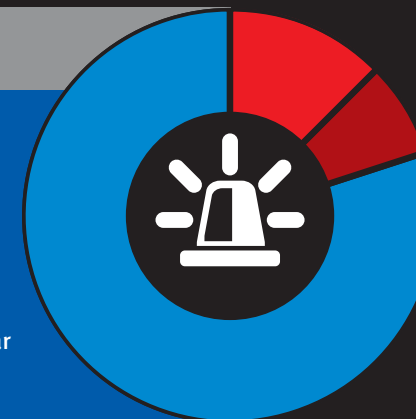
Read more about emergency preparedness on page 24.

TRAFFIC ENFORCEMENT PUSHBACK

12.5–20 percent

In 2015, Missouri enacted SB 5; a law that limits police departments' annual general operating revenue from traffic fines to 20 percent or 12.5 percent, depending on location. Several other states have passed similar legislation in the last few years.

Find out more about continuing state and federal interest in traffic enforcement caps on page 20.



DRUG ISSUES: LAW ENFORCEMENT'S ROLE

40 percent

Fatal heroin overdoses increased 40 percent between 2013 and 2014; this after the same statistic doubled between 2010 and 2012 in the 28 states collecting data.

Police agencies across the country are dealing with this spike in opioid overdoses, painting a reality that "heroin and other opioid abuse represents an 'urgent health crisis.'"

Source: www.theiacp.org/portals/o/documents/pdfs/Addressing21stCenturyDrugIssues.pdf



POLICE AND COMMUNITY COMMUNICATION

@PaloAltoPolice

In one of several community relations coups during 2014, Palo Alto, Calif., police fielded a humorous text from teenagers about a missing burrito. The department responded in kind with a Tweet that engaged more than 50 members of a traditionally hard-to-reach constituency.

Source: www.iacpsocialmedia.org/Portals/1/documents/external/LESMPoV2014_FINAL.pdf

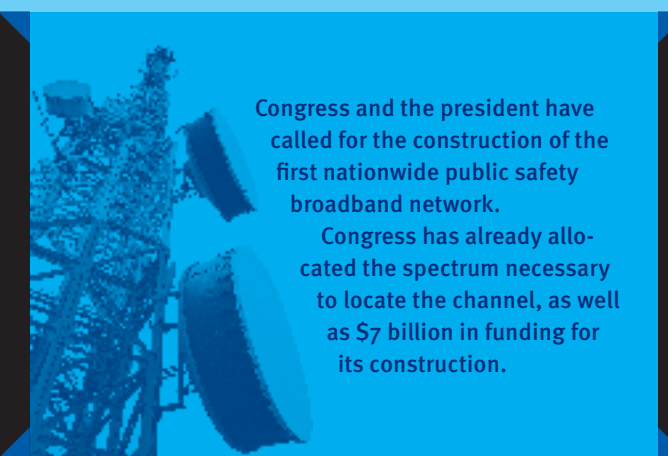


FIRST RESPONDER NETWORK AUTHORITY

Congress and the president have called for the construction of the first nationwide public safety broadband network.

Congress has already allocated the spectrum necessary to locate the channel, as well as \$7 billion in funding for its construction.

Read more about emergency radio communications on page 32.





Support piling up for traffic enforcement caps

By ANNE MEYER BYLER | The Municipal

CITIES USE TRAFFIC FINE INCOME to help balance their budgets. In some cases, this has led to state capping legislation — laws that govern the percentage of the the municipal income that can come from traffic citations. Typically, fines taken in over that amount go into a state fund. Assessing the climate of traffic cap enforcement is difficult. Quite a few states have enacted such legislation, while others have made changes to theirs recently. Michael Green of the American Automobile Association provided several examples of recent activity:

Arkansas

The law caps the amount of general revenue brought in by traffic tickets to 30 percent.

Florida

Last year the legislature passed SB 264, preventing local police from using traffic ticket quotas. The move stemmed from a long-standing speed trap in the small Alachua County town of Waldo, along U.S. 301. The bill also requires local governments to submit reports to the legislature if traffic ticket revenues cover more than 33 percent of the cost of operating their law enforcement agencies.

Georgia

In 2015, SB 134 reduced the amount of traffic citation revenue as a percent of the municipal budget, from 40 to 35 percent.

Missouri

Last year Missouri enacted SB 5, partially connected to issues in Ferguson. The law limits the annual general operating revenue from traffic fines to 20 percent or 12.5 percent, depending on location.

Oklahoma

Under Oklahoma law, a city may not receive more than half its income from such fines.

ABOVE: Caps on municipal traffic enforcement income have already been enacted in several states. (Shutterstock photo)



Virginia

In Virginia, a 2012 budget formula limited traffic enforcement revenue; and a 2015 amendment further reduced the amount local governments could keep, said State Senator Bill Carrico of the 40th District. So Virginia did have a cap prior to the 2016 General Assembly session, but it was subsequently removed by Governor Terry McAuliffe.

The Virginia Association of Counties, Virginia Municipal League and the Virginia Sheriffs' Association all objected to the cap because it limited income for municipalities, according to retired State Trooper Bill Carrico. They lobbied the governor to strike it down. But citizens usually support such caps, calling the alternative "taxation by citation" or "policing for profit." They prefer police spend time on other types of crime, rather than setting up "speed traps" or writing tickets for those who may be going over unusually low speed limits.

The federal government has become involved. On March 9, 2015, Representative Emanuel Cleaver II (MO-05) announced a plan to introduce a bill to ban criminal and traffic law enforcement activities motivated by revenue-raising purposes. The Fair Justice Act would bar a municipality from exceeding 30 percent of its general revenue from traffic tickets and fines. Funds exceeding the 30 percent cap would go into a state fund for community policing efforts. The bill would require each state to pass its own law capping traffic fines at the same level within a year after enactment and would bar local law enforcement agencies from issuing directives that would allow the agency to issue tickets based on motivations of revenue rather than public safety. Additionally, it would effectively ban police from carrying out "taxation by citation." Rep. Cleaver has not yet carried through on his promise to introduce the act.

Another proposed bill would prohibit automated enforcement. Rep. Ed Perlmutter (D-CO) has introduced legislation that, if

passed, would prohibit the use of automated cameras in traffic enforcement across the country. The bill is H.R. 950, the Prohibiting Automated Traffic Enforcement Act of 2015; it was introduced February of last year. There have been no hearings on the bill to date and it has only one cosponsor, Rep. Albio Sires (D-NJ). Additionally, the FAST Act, signed into law by the president in December, included language in the "Miscellaneous" section stating that funds apportioned to states cannot be used to purchase, operate or maintain an automated traffic enforcement system except in a school zone.

Andrea Edmiston of the National Association of Police Organizations said the group picks up only on issues brought to it by member state and local law enforcement agencies. No member group has brought the issue of capping legislation to them. The NAPO board decided not to take a position on the Prohibiting Automated Traffic Enforcement Act of 2015.

However, Herbert Brag, director of inter-governmental and public affairs for the city

ABOVE: The FAST Act, signed into law by the president in December, included language in the "Miscellaneous" section stating that funds apportioned to states cannot be used to purchase, operate or maintain an automated traffic enforcement system except in a school zone. Municipalities are similarly targeted in a current bill. (Shutterstock photo)

LEFT: Motorists are perpetually at odds with what they perceive as overzealous traffic enforcement as a fundraising tool. Without the income from a reasonable amount of traffic enforcement, however, several cities and states would be forced to significantly diminish their level of service. (Shutterstock photo)

of Hopewell, Va., said police in his town were glad for their governor's action on traffic enforcement revenue, and that the auditor of public accounts for the state has said there was no precedent for the state to take those funds.

The former legislation affected 33 different localities within the state, some of them already fiscally stressed, like Hopewell. He said that the legislation "took away money from police highway safety programs such as in Hopewell."

"This law had affected two miles of Hwy. 295 that goes through the city limits of Hopewell. The speed limit there is 70, and the sheriff department was policing that area and would only stop motorists going 80 and above. They also ticketed people for having drugs on board, for not using seat belts and for having illegal weapons. By being there, sheriffs have also been able to assist motorists who've broken down on that stretch," he said. **M**



Many law enforcement officials' assignments pit them against powerful temptations: in truck enforcement, it's usually an abundance of cash. The exceptional authority of an officer to enforce weight limits and collect sometimes-large fines requires exceptional accountability. (Shutterstock photo)

The perennial challenge of integrity

By JODI MARLIN | The Municipal

The death of a Fox Lake, Ill., officer late last year unleashed yet another shameful public conversation about bad behavior carried out by members of law enforcement.

Lt. Charles Joseph Gliniewicz, an Army veteran and enthusiastic member of the department, was by several accounts judged to be an upstanding member of the profession. He seemed anxious to pass that love of law enforcement on to the next generation, running an Explorer program that introduced teenagers to a career in law enforcement. Unfortunately, it was his involvement in the same youth program

that seems to have motivated Gliniewicz to take his own life when it was discovered he had embezzled a large amount of money from the program and spent some of it illicitly.

In the midst of postmortem media coverage dissecting his diametrically opposed actions appeared the following blog post, written by a member of the Illinois Truck Enforcement Association staff. While Gliniewicz was not a

truck enforcement officer, TEOs share with Gliniewicz a disturbingly large number of opportunities to betray their badges as well as their personal values.

The Feb. 6 blog post takes a wide view of the tragedy. While it might not be the last time uncomfortable questions need to be asked of the family and associates of a fallen officer, Gliniewicz's death is an alarm that has drawn attention to the personally challenging and politically untenable job of police officers — something that will likely remain on the minds of departments across the country for months to come.

There's still a dead cop

It's hard to believe more than five months have elapsed since the suicide of Fox Lake, Ill., police lieutenant Charles Gliniewicz. The scorching heat of that September day saw the very best of the law enforcement. They rallied together for one of their own. Even through the eventual betrayal, no one regrets the action taken and will gladly do it again when the radio crackles of an officer down. But, there's still a dead cop.

The movies and TV have a penchant for over-dramatizing police corruption. It sells. Police officers, like most, enjoy a good film about their profession even if it casts them in negative light. America knows it's a caricature. There's always a little truth sewn into the yarn, but it's just a story.

The burning question is how does a police officer like Gliniewicz get to a point where he must kill himself? This article is not about to justify his actions and crimes. Nor is this article going to address complexities built into the emotional, medical, psychological or spiritual conditions of suicide. Rather, this article will follow one path (and there are many) which lead to a Gliniewicz situation. It goes like this:

Authority

Authority is a double-edged sword. The freedoms held dear in a democracy depend on order and justice. Some call policing a necessary good, some will describe it as a necessary evil. Regardless, it's necessary. Even the best humans have a streak of evil in them, and a statutory authority may very well expose it.

Opportunity

Police officers are exposed to the extremes of lifestyle choices on a daily basis. However, it's the basic opportunities afforded most people which police officers have a greater ability to conceal. Read any true story of police corruption and you will find one of three things, or a combination thereof: money, sex and alcohol. Every time.

Money, however, is the risk of truck enforcement officers. Where there are overweight trucks, there is an abundance of cash. The exceptional authority of a police officer to enforce weight limits and collect enormous fines requires exceptional accountability.

Lack of accountability

With unique knowledge like truck law, it's easy to pull the wool over the eyes of supervisors who should be holding subordinates accountable. Once a police officer can justify his actions in a way which appeases superiors possessing less knowledge, the impropriety can flourish.

Charade of success

This is where the true fallacy begins. It's hard for police administrators or municipal officials to deny an influx of cash. Contrary to popular belief, most local governments run a lean, mean frugal ship. Every penny helps provide community services. The police officer generating revenue shines like a star.

Discovery

The con of evil is that it will remain concealed. The honest and honorable recognize the evil inside themselves and choose to do good. They can foresee the embarrassment, the consequences and the judgment



Because most local governments can use some extra cash, the police officer generating revenue shines like a star. But danger arises when that revenue is valued over transparency. (KSB / Shutterstock.com)

when what was hidden comes to light. They choose to believe they will get caught and not create rationalizations for their actions.

Termination

Maybe it's simple and they only lose their job. The more heinous are indicted, arrested and prosecuted. Some avoid it all by taking their own life. Regardless, the career is over and the public trust is compromised.

The public has not heard why Charles Gliniewicz became a police officer. This author will give him the benefit of the doubt. He was probably a good person with great intentions to serve the public.

He was given authority to be a police officer and was promoted several times to a position of greater authority. He was given an opportunity to run a successful police explorer post, which may have produced fine future police officers. He had little accountability over his methods of instruction, the finances he managed or his time. Throughout the years, he was heralded with praise, awards and recognition. The success was an illusion as the walls came crumbling down.

But there's still a dead cop. ■

Published with permission of the Illinois Truck Enforcement Association. View the original at www.illinoistruckcops.org.

Keep calm and be vigilant

Helping the public remain aware of emergencies



By DENISE FEDOROW | The Municipal

BE PREPARED. THE MOTTO THAT scouts live by—trying to anticipate all possible scenarios and how to respond—is not only a good motto for them, but for municipalities as well. Having an emergency preparedness plan in place is vital to a community’s ability to know how to respond when disaster strikes.

According to the Federal Emergency Management Agency, the primary goals of an emergency preparedness plan is to protect the health and safety of emergency responders and the public; protect public and private properties and the environment; and minimize disruption to the community.

The type of disasters communities deal with most frequently fall under the natural disaster heading—think tornadoes, hurricanes and wildfires. Therefore, these are the disasters they’re most prepared for. The best preparation is often a healthy memory of the last time disaster struck.

Moore, Okla.

Moore has been hit with five major tornadoes in five years. The EF5 that struck on May 20, 2013, left 24 people dead and over 200 injured. Several of the fatalities were children from Plaza Towers Elementary School.

One parent who lost a daughter when the schools’ walls collapsed said in a recent

Whitfield County Emergency Management Director Claude Craig, right, and his battalion chief discuss plans for a full-scale exercise held in 2015. (Photo provided)

television broadcast that she thought the school was one of the safest places for her children to be during the tornado. Since then, tornado storm shelters have been built in every school that didn’t have one.

City Manager Stephen Eddy said that Moore’s emergency personnel now conducts exercises with schools and hospitals to prepare for a similar event.

“We have a very well-educated citizenry of what storms can do,” he said. “We’ve had



Personnel from different agencies in Whitfield County, Ga., and its municipalities stand ready to utilize a decontamination tent for those affected by hazardous materials during a full-scale disaster preparedness exercise in 2015. (Photo provided)

“We’re very well-prepared, but you can never be fully prepared. You think you have a great mousetrap until someone comes along and builds a better one.”

enough real live events here that we get our training in the school of hard knocks.”

For many communities, that “school of hard knocks” training extends to mass transportation incidents like train derailments and multiple-car crashes, and acts of mass violence and terrorism such as school shootings and public venue attacks.

Dumont, N.J.

Dumont, located in Bergen County, N.J., is sometimes referred to as a suburb of Manhattan because of the cities’ proximity. Dumont conducts exercises every month, in every school, for active shooter situations, evacuation drills and more, said Office of Emergency Management

Coordinator, School Security Coordinator and Police Captain Michael Conner. “We do very well on that end. The school district has bought into the need for emergency drills.” OEM is involved with and supervises those drills.

“We’re very well-prepared, but you can never be fully prepared. You think you have a great mousetrap until someone comes along and builds a better one.”

The public is kept aware during emergencies through social media. Capt. Conner said the city and OEM have a Facebook page that links to Twitter and “allows us to get the information out in a timely fashion.”

Whitfield County, Ga.

Claude Craig, president of Emergency Management Services in Whitfield County, said his local municipalities of Dalton, Tunnel Hill and Varnell all work well together on preparedness and response—a critical factor, in his opinion.

The cities partner to conduct various community awareness events, which involves setting up a table at local building supply stores during Lightning Awareness Week, Severe Storm Awareness Week and similarly appropriate times to educate the public. Many of Whitfield County’s disasters are weather-related, but because they have several factories that use chemicals, HazMat is also a concern. ▶

The community is asked to become involved in preparedness plans. Representatives from various businesses and organizations attend planning meetings. Manufacturers that meet certain criteria have to have a risk management plan in place for their specific facilities as well, and once a year Craig, along with the local fire department and HazMat teams, look at those plans and conduct exercises at their facilities.

FEMA PreparAthon

Whitfield County was the first county in the state and among the first in the nation, to conduct a PreparAthon, according to Craig. Last year was the first, and it touched 36,000 people. It took place over three days, with the focus of the first day being businesses and schools; then community disaster awareness; followed by faith organizations and churches. Officials went out to different areas, including a carpet manufacturing plant, school and fire department, reviewed their plans and then exercised the plan. An



After five major tornado incidents in five years, emergency personnel in Moore, Okla., now conduct exercises with schools and hospitals to ensure both are prepared for a similar event. (Shutterstock photo)

“We have a very well-educated citizenry of what storms can do.”

annual HazMat transportation exercise involving everyone in the community also takes place.

“We throw everything into it. It helps us see where our strengths and our weaknesses are,” Craig said. “We exercise together, we plan together, we get the citizens involved.”

An added dimension to this year’s PreparAthon will be fundraising. A telethon will encourage people to call in and verify their information for the “Code Red” emergency notification system, or to sign up. Landline telephones will automatically be included; but cellphone users have to opt in.

Code Red is used to notify the public if there is an emergency. Vital information like street closures, due to flooding, are shared as are warnings that folks in a certain neighborhood need to “shelter in” because of a potential chemical leak. Multiple public service announcements appearing in local print and broadcast media encourage people to have a plan at home and a kit ready. “We ask they prepare to be self-sustaining for 72 hours because it may take that long to get to them,” he said.

DID YOU KNOW:

Moore has been hit with five major tornadoes in five years. The EF5 that struck on May 20, 2013, left 24 people dead and over 200 injured.



Changing of the guard

Emergency management personnel are charged with maintaining the continuity of established emergency plans in spite of the fact that elected officials do change. In Dumont’s case, “It’s a matter of educating the newly elected official about what we do, how we do it, why we do it and how we pay for it,” said Capt. Conner.

From an operational standpoint, little changes. The only time the city’s mayor and council get involved is when they have to declare a local emergency. They’re involved in the preplanning for major events, of course, and they approve the purchase of items; but they need to be aware of the plan, review it and make any recommendations for changes.

“The whole plan falls on the shoulders of OEM, and we have to get approval from county emergency management and the state police,” Capt. Conner said. The emergency plan is updated every four years.

Craig agreed that maintaining an emergency plan during leadership transitions is mainly a matter of educating the new officials. Plans should be updated annually to reflect those changes, and also so current contact information is included. **M**

EMERSON MANUFACTURING

BUY FACTORY DIRECT! MADE IN THE USA!

WWW.EMERSONJACKS.COM
1-800-633-5124

**AIR JACKS * AIR HYDRAULIC JACKS * AXLE JACKS
WHEEL JACKS * TRANNY JACKS * CLUTCH JACKS
RAMPS * SAFETY STANDS * CYLINDER LOCKS * WEDGE LOCKS
OIL AND ATF CADDYS AND MORE!**

EMERSON MANUFACTURING

Firefighters’ #1 Choice for PORTABLE WATER TANKS

HUSKY®
Portable Containment
“THE LEADER OF THE PACK”

All Husky® Folding Frame Tanks/Liners come STANDARD with our patented EASY LIFT HANDLES.
(US Patent No. 8,746,478 and other patents pending)

“Dewey Fire Department uses Husky® products, which are great for our department.”
—Chief Dale Little, Dewey Fire Dept.

Husky® would like to express our sincere thanks to all the dedicated firefighters who put their lives on the line to help protect the people, land and property of this nation.

Folding Frame Tanks • PRO500® (patent pending) • Skinny® Tank • Self-Supporting Tanks • Salvage Covers • Portable Tank Racks

918-333-2000 • 800-260-9950 • www.HuskyPortable.com



New developments in underwater gear

By **BARB SIEMINSKI** | The Municipal

FOR YEARS, POLICE, FIRE AND hazmat divers around the world have used self-contained underwater breathing apparatus in search and recovery/rescue efforts. Advanced technology and evolving practices and policies continue to make those assignments easier than ever for divers who may be looking for images of bodies, submerged cars, lost boats, aircraft, weapons or other items.

According to Doug McGowen, director of new business development and marketing at EdgeTech, a product that has been making a big splash with SAR teams across the country for the last six years is the company's 4125 high-resolution side-scan sonar system. Side-scan sonar displays objects that are submersed underwater. It can be adjusted to each side of the boat so that with each pass one can search a much larger area.

Another innovation that has come about more recently, according to McGowen, are combination side-scan/bathymetry systems that add a 3-D view of the body

of water. This technology offers a shallow-water hydrographic survey, nautical charting, dredging operations, marine debris search and more.

Even more recent is the autonomous underwater vehicle. Last fall, Ocean Server Technology Inc. delivered an Iver3-580 AUV to the Michigan State Police Underwater Recovery Unit, which operates at depths to 200 meters. The vehicle includes hi-res side-scan sonar.

"It's smaller, and the setup is much easier and faster. The imaging is clearer and more defined, so we can spot objects faster than the old system."

The Lansing municipal diving team is headed by Sgt. Bryan Curtis, commander of Capital Area Dive Team of the Lansing Police Department. He has been successfully using a 2016 Humminbird Onix 10CI SI Combo on dives.

"We operate the (side-scan sonar) off a 14-foot Zodiac Futura powered by a fuel-injected 25-horsepower Mercury outboard motor, both of which are 2014 models," said Curtis, a 20-year police department veteran and 16-year police diver who supervises 20 divers from surrounding counties.

Ongoing innovations keep the Lansing diving team up to date on use of the gear, as well as practices and policies.

RIGHT: Two divers wait for orders to enter the water during an investigation in Columbus, Ohio. (Photo provided)

LEFT: Deployment of a side-scan sonar system by a Department of Natural Resources entity. (Photo provided)

ABOVE: Components of the 4125 EdgeTech Side-Scan Sonar System. (Photo provided)

"We operate using (a full-face mask) equipped with an MK-7 buddy line, which assists with the rope tender being able to communicate directly with the diver ...," he said, adding that most diving is done in the Grand River but also in retaining ponds, small lakes and gravel pits. By utilizing both the full mask and dry suit, divers are protected from environmental factors.

This collaborative team shares equipment and staffing from other municipalities to best serve a larger area. The Capital Area Dive Team is a multiagency team of members of the tri-county area of Clinton, Eaton, Ingham County Sheriff's Department, as well as the Lansing Police Department. ▶



Underwater search puts officers' attacker behind bars

The following anecdote was related by Sgt. Bryan Curtis of Lansing, Mich., regarding the effectiveness of the department's underwater metal detector.

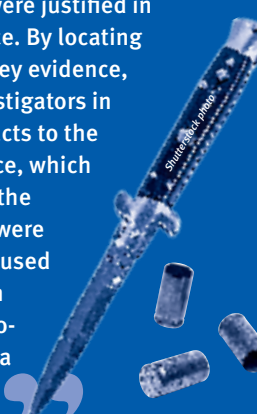
One particular evidence recovery that I found to be rewarding occurred in May 2015. Authorities in Clinton County pursued a subject wanted on felony charges who had just assaulted his family. Authorities located the accused and attempted to stop him within his vehicle.

The accused refused to stop, and a high-speed pursuit originated that lasted for several miles. Stop sticks were successfully deployed that flattened the accused's car tires, causing him to eventually stop his vehicle. He then fled on foot and entered a small lake. As authorities attempted to take him into custody he lunged at them with a knife. Two authorities responded by using their sidearms and shooting the accused. Once the accused was shot, he was taken into custody and rushed to a hospital, where he eventually recovered from his injuries. Luckily, no authorities were injured.

The Capital Area Dive Team was called in to locate critical pieces of evidence that assisted in reconstructing this event. We located the knife used by the accused and also utilized the Pulse 6X Metal Detector to find spent shell casings from the sidearms the authorities used.

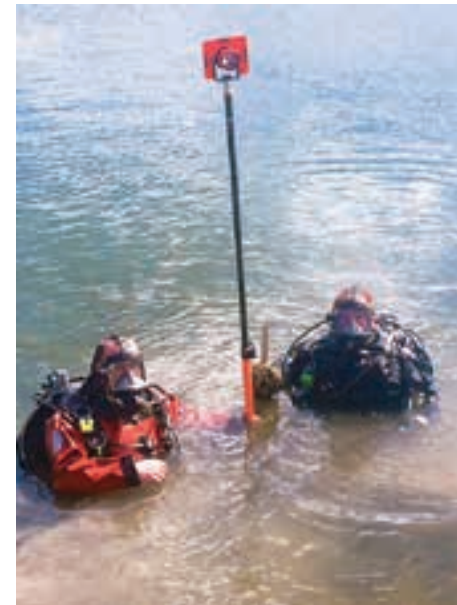
Sgt. Rob Earle and Deputy Ryan Cramer, both of Ingham County, recovered the knife and marked the area where it was found with a prism pole.

Officer-involved shootings create a situation where people oftentimes want an immediate answer as to whether or not the officers were justified in using deadly force. By locating these pieces of key evidence, we assisted investigators in presenting the facts to the prosecutor's office, which determined that the officers' actions were justified. The accused was charged with two counts of felonious assault on a police officer. ■





LEFT: The 4125 EdgeTech Side-Scan Sonar System is used on a Zodiac Futura inflatable boat. (Photo provided)



“It’s a tremendous asset that allows the divers to talk to each other and to surface personnel. It has replaced the old tender-to-diver line signals.”

“Our divers are also trained in swift-water rescue, and an important piece of equipment that we utilize is an Oceanid RDC Water Rescue Craft,” said Curtis. “It’s basically a floorless raft. The purpose of it is so that you can approach a closed-head dam and rescue someone caught in the dam’s boil. It won’t take on any water because it can’t get filled up with water.”

The biggest challenge with the new equipment is finding



an opportunity to get to know how to operate it, said Curtis. The team dives off a pontoon for greater stability and elbow room. “Side-scan sonar is becoming more common and more affordable at the civilian level, and the technology is only getting better,” he noted. “Black Laser Learning, a collaborative of Dive Rescue International, is now offering training seminars in operating side-scan sonars for the public service sector. If I had a larger budget, I’d continue

to update our equipment. My 2015 equipment budget was \$16,130 for our 10-person team.” He’s a fan of the Humminbird because it’s affordable.

Police officer and Divemaster Steven Kaethow of Columbus, Ohio, said his team began using a similar model within the last two years.

“This model is ten times better than the old sonar system we had,” said the 15-year diving veteran. “It’s smaller, and the setup is much easier and faster. The imaging is clearer and more defined, so we can spot objects faster than the old system. This translates into

LEFT & RIGHT: Columbus, Ohio, search and rescue divers wear heads-up display masks that display their depth, bottom time and tank pressure inside the mask; they also use an OTS buddy phone to talk to each other and to surface personnel. (Photos provided)

spending less time on ‘possible’ hits and sending divers down to feel what the image or object is. We can rule out images faster and be more certain when we do send a diver down to investigate. Less time in the water reduces the chances of our divers getting injured.

“Since we dive in zero visibility, we use a heads-up display mask, which displays the diver’s depth, bottom time and tank pressure inside his or her mask,” he continued. “This allows the diver to monitor his or her own personal data ... allowing him or her valuable information that we cannot get, sometimes until the diver gets back to the surface where their gauges can be seen.

“We also use the OTS buddy phone: It’s a tremendous asset that allows the divers to talk to each other and to surface personnel. It has replaced the old tender-to-diver line signals. Other items we use include a J.W. Fishers metal detector, Kirby Morgan helmets and Interspiro surface-supplied air systems. Both systems have hardwired communications and are surface supplied air so there’s an endless amount of air for the diver, if needed.

“Finally, our most recent equipment is the Vibra-Tector handheld metal detectors, and a newer and better side-scan sonar system.”



Cut Down on Delivery Costs

New Trailers

Rearload Dumpster Delivery Trailer
Pro-Delivery Trailer-RL

Front Load Dumpster Delivery Trailer
Pro-Delivery Trailer-FL

Your Complete Source for Refuse & Recycling Equipment

Pro-Tainer 800-248-7761
www.ProTainer.com

Crowd Control Where & When You Need It

Made in U.S.A.

Storable

Portable

Expands to 10 feet

RETRACTA-CADE
by Visiontron Corp.

RETRACTA-CADE.COM | 800-585-7750



LEFT: James Duram, K8COP, of the Muskegon County Emergency Communications Group, operates from a camper trailer during a Field Day weekend. Annual Field Day events held by the American Radio Relay League are meant to simulate how amateur radio communication should work during a disaster that takes out the permanently installed radio infrastructure. (Photo credit James Meyers, KC8PC)

RIGHT: Kim Karr, K8KDK, operates from Muskegon County's Mobile Command during an ARRL winter Field Day in Muskegon, Mich. (Photo credit Tom Porritt, K8EOD)



In the pipeline: An exclusively first responder broadband communication channel

While the assistance of groups like ARES fills a crucial gap during disasters, a large-scale government project that's underway aims to facilitate and improve the reliability of inter- and intra-agency communication during such emergencies.

Buried in the Middle Class Tax Relief and Job Creation Act of 2012 came a mandate from Congress that fulfilled a key recommendation of the 9/11 Commission report. To improve both interagency communication at the scene of an emergency and to more efficiently provide first responders with all the available pieces of information regarding a developing public safety call, in real time, Congress and the president called for the construction, deployment and operation of the first nationwide public safety broadband network.

The First Responder Network Authority, or FirstNet, is envisioned as an interoperable platform that will fulfill the need to allow local, state and federal public safety agencies to communicate with each other, without interruption during times of high call volume in the vicinity of an emergency. When the nationwide network is built out to the local level, it will also enable 911 call centers across the country to take caller information, photos, texts, videos and other "mission critical, high-speed data," and send it out to the responder as he approaches the scene. Jay English, APCO International director of communications center & 911 services, describes it as a wireless pipeline that will operate between public safety agencies.

FirstNet will partner with a public agency to deploy the network. The organization's board of directors are currently discussing the plan with the states, which will have to either allow FirstNet to create a radio access network in the state or create its own RAN that uses the network core and meets FirstNet requirements.

Congress has already allocated the spectrum necessary to locate the channel, as well as \$7 billion in funding for its construction. For current information or to find out how your agency can participate in the network's development, visit www.firstnet.gov. ■

Back-to-basics communication during disaster

By LAUREN CAGGIANO | The Municipal

Amateur radio operators, also known as ham operators, can provide an extra layer of communication during emergencies. Two volunteer organizations and local government entities illustrate precisely how private-public amateur radio partnerships serve as a means to an end for public safety.

Rick Bunn is the Amateur Radio Emergency Services coordinator for the city of Alexandria, Va. He works with volunteers from the Alexandria Radio Club and Alexandria ARES chapter to provide disaster management services during the times when all else fails.

ARES consists of licensed amateurs who have registered their qualifications and equipment with local ARES leadership for

emergency communications duty in the public service. In the United States, the effort is organized and sponsored by the American Radio Relay League. Every licensed amateur, regardless of membership in ARRL or any other local or national organization, is eligible to apply for membership in ARES.

Alexandria, a suburb of Washington D.C., has a population of about 150,000. Bunn has

been the local ARES coordinator for 10 years and describes local HAM operators' role as supplemental, but necessary.

"As the city's radio systems have become more robust, our need to supplement their communications has decreased; but we still train and practice," he said. He noted the group has a signed memorandum of agreement with the city to set ground rules and ensure it is in compliance with federal laws.

Large-scale public events means there's a need for the service. According to Bunn, his group has a presence at the Marine Corps Marathon, Washington's Birthday Parade and airport disaster drills every third year at Reagan National Airport and Dulles Airport.

Preparation is key, so Bunn's fellow operators make a point of bringing their "A" game. "Yearly, we participate in a nationwide drill called 'Field Day' where we operate out of a

field using temporary antennas and no commercial power. This is to simulate a disaster that takes out our permanently installed infrastructure — think Katrina," he said.

Participants work with the state emergency management agency, local government, Red Cross, local hospitals and other organizations that are in need of communication services. Fortunately, according to Bunn, real emergencies are "few and far between."

But when they are needed, they more than prove their value. Hurricane Isabel is a recent example of an event during which Bunn and his team provided long-distance communications around the affected area and to the state emergency management in Richmond.

"In the late '90s we supported Red Cross with long-distance communications when hurricanes hit the U.S. Virgin Islands," he said. "Due to conditions, we made contact with St. Croix via Perth, Australia."

Perhaps the most high-adrenaline case happened during the 9-11 attacks, when ARES mobilized to support the local hospital, Red Cross and first responders at the Pentagon and then returned to support recovery efforts at the Pentagon.

None of that would not be possible without an intentional approach to public service. Bunn attributes his group's success to four factors: continuous engagement, ability to

quickly adapt to changes in agency operations, professionalism and demonstrated ability to provide what agencies request.

Jim Duram echoed Bunn's statement. A ham radio operator and Muskegon County emergency coordinator, he added that operators offer a unique capability during times of disaster.

"Volunteers support and own their own equipment," he noted. "They're pretty much self-contained."

Muskegon County Emergency Communication Services Inc. is comprised of licensed Ham radio operators who have expressed an interest in providing emergency communication. MCECS's primary mission is providing communication support in times of local emergencies, disasters, severe weather events and for the Muskegon County Sheriff's Search and Rescue Team. It also provides communication support to nonprofit organizations for walkathons, bicycle races and other charitable events. The western Michigan county has a population of about 172,000.

Duram said constant training is necessary as "not every event is going to be the same." Operators need to constantly adjust to new situations. Unpredictable weather is one that hits home as the county experiences weather patterns that develop over Lake Michigan. ▶

“The last thing you want is to have a volunteer show up at the scene and no one knows the individual.”

Volunteers do their best to keep their cool and get the job done. Annual events like the ARRL Field Day help operators maintain and sharpen their skills. ARRL is the national association for Amateur Radio in the U.S., and its Field Day is the most popular on-the-air event held annually in the U.S. and Canada. On the fourth weekend of June, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations. As the ARRL describes it, “Field Day is part educational event, part operating event, part public relations event.”


Beyond formal training, there’s no substitute for rapport. That means forging relationships with local public safety professionals, Duram said.

“The last thing you want is to have a volunteer show up at the scene and no one knows the individual,” he said.

Other soft skills include a willingness to help one’s fellow man and to get the right message through to the right agency.



Thomas “Randy” Reed, W8WXM, Muskegon County Skywarn Coordinator, coordinates a Skywarn weather Net in Muskegon. Licensed amateurs who have voluntarily registered their qualifications and equipment with local ARES leadership are available for emergency communications duty in the public service. (Photo credit James Meyers, KC8PCJ)

In addition to volunteer support, the organization depends on private donations to continue its work. A 501c3 nonprofit, this status allows MCECS to receive grants and donations, with a taxable deduction available to donors in the U.S. 



**PURPOSE.
PERFECTED.**

DUAL PURPOSE (ORGANICS • SOLID WASTE)

40" LIQUID TIGHT HOPPER — liquid-tight hopper allows you to fill up to 40" high.

UNMATCHED COMPACTION — First mobile compactor of its kind to offer 23,000 lbs. of torque in a screw-type auger.

HOPPER BODY DISPLACEMENT — ROTO PAC®'s hopper displacement ranks 20% higher than any other ASL system.

BEST LEGAL PAYLOAD — Easily handles up to 13 tons of Organic or MSW payload.

MOST MANEUVERABLE AUTOMATED SIDE LOADER — Get into, and out of, the tightest spaces with ease.



ROTO PAC®

JOIN THE REVOLUTION with ROTO PAC®
The first automated, auger-driven Organics and MSW collection vehicle in the world.



SEE IT TO BELIEVE IT.
PurposePerfected.com/x2



 **NEW WAY®** Driving The Difference.® · newwaytrucks.com · Proudly USA Made |  **NJPA AWARDED CONTRACT**
112014-NWY

IMEL MOTOR SALES
MEDIUM DUTY TRUCKS
HOME OF THE CLEANEST SINGLE-AXLE TRUCKS
www.imelsales.com

Call Brent 260-437-4577

Phone: (260) 565-3177

Fax: (260) 565-4177

Email: brent@imelmotorsales.com

Call for References



Authorized Dealer
Meyer
90 YEARS

Financing Available!
DELIVERY SERVICE

Check us out on the web
www.imelsales.com



2011 INTERNATIONAL 4300
Under CDL Chip Truck
New Arbortech 14' Chip Box **\$55,000**



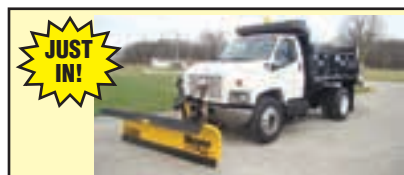
2007 INTERNATIONAL 4300
Fresh DT466, Allison Automatic, Air Brakes!
33,000# GVW, All New 10' Dump
w/ Snow Plow Pkg! **\$59,500**
Optional Meyer V Blade Available w/ 5 yr Warranty Call for Price



2009 INTERNATIONAL 4400
Long Wheelbase Tandem, DT466 Big Power,
Allison Automatic w/ PTO Provision, Low Miles!
52,000# GVW, Air Ride. **\$48,500**



2009 INTERNATIONAL 4300
Oklahoma truck, 250 hp. DT466, Allison AT,
33,000# GVW, all new snowplow pkg. w/central hyd.
& stainless tail gate sanders. **\$65,000**



2007 GMC 7500
Under CDL! Last year for No Emissions! 7.8
Inline 6 Duramax Turbo Diesel (Power House!)
AT, Hydraulic Brakes, New 10' Dump Snow Plow
Package w/ Plow and Salter **\$57,500**



2010 ISUZU NPR HD
Diesel, AT, lots of options! 14,500# GVW, I-Pack
toolbox, 9' Crysteel dump w/ fold down sides,
heavy hoist, pintle hitch, brake controller, very
nice landscaper truck! **\$28,500**

Can residents' faith in Flint be restored?



By SARAH WRIGHT | The Municipal

While getting the lead out of Flint, Mich., remains the No. 1 goal of Mayor Karen Weaver, she has been clear her second goal is to obtain the financial and other important resources the city needs to recover from its water disaster.

The crisis has been trying for citizens, who for months couldn't cook, drink or bathe in the water coming out of their faucets. Unsurprisingly, Weaver—in a presentation at the Michigan Municipal League's Capital Conference in March—stated, "Some have elevated blood lead levels. There are a lot of parents that have to cope with the anxiety that lead-laced water might have permanently affected their child's development and possibly stunted that child's future."

To address these anxieties, aid residents' recovery and restore trust, Weaver and the city have identified a wide range of focus areas, including health, education and opening up communication between the city and its residents.

The first priorities: health and well-being

With many children having been exposed to lead-tainted water, education and nutrition have become important components of Flint's recovery plan. "When we talk about education, that is going to be the key to helping our children," Weaver said.

The approach will include expanding early literacy programs, instituting universal preschool, training school nurses to help students affected by lead, and enlarging schools' special education capacity. "We have to have instruction for our teachers on how to spot developmental and other problems in children affected by lead," she urged.

Flint continues to offer blood testing, especially for children. Weaver and the city

With the water crisis and recovery efforts, Flint, Mich., Mayor Karen Weaver and Public Relations Director Kristin Moore determined it'd be best to hold a press briefing at least once a week so residents and the media could hear from city officials about projects and plans that are in the works. (Photo provided by the city of Flint)

are also zooming in on other services that directly impact children.

In May, it was announced the U.S. Department of Agriculture expanded access to summer EBT benefits to children living in Flint. This expansion meant an additional 23,000 children—in Flint were eligible to receive a \$30 benefit package each month during the summer. During the school year about 22 million children receive free and reduced price school meals through the USDA's National School Lunch Program.

Increasing access to WIC for women and their children has also become a goal. Proper nutrition, Weaver explained in her presentation, will greatly help those affected by lead.



Regular public meetings have allowed Mayor Weaver the opportunity to inform the public about where she stands on issues, in addition to what is in the works for Flint. (Photo provided by the city of Flint)

"Flint still doesn't have a major grocery chain in city limits," she noted. "It's hard to get access to the food they need after being exposed to lead. That's something I still struggle with, having grown up in the Buick City—that transportation would ever be a barrier for our families."

Health and nutrition experts are working with the city to teach Flint families the importance of foods rich in iron, calcium and vitamin C in combatting the effects of lead. Weaver noted, however, such efforts take time and money to put in place and promote.

Ten philanthropies have stepped up and plan to provide nearly \$15 million for health, education and economic development in the city. These organizations include the Charles Stewart Mott Foundation, Carnegie Corporation of New York, FlintNOW Foundation, Ford Foundation, The Hagerman Foundation, The Kresge Foundation,

BY THE NUMBERS

Distributions to Flint residents since Jan. 9 have included:

- 1.36+ million cases of bottled water
- 122,100+ water filters
- 265,900+ replacement cartridges
- 50,100+ at-home water testing kits

Distributions have been carried out by Water Response Teams and water resource sites.

Robert Wood Johnson Foundation, Ruth Mott Foundation, Skillman Foundation and W.K. Kellogg Foundation.

"Flint's water crisis is far from over. While some funds and services have been provided, we're still waiting for the state and federal governments to step up, replace damaged infrastructure and make long-term commitments to the health and education of children," Ridgway White, president of the Charles Stewart Mott Foundation, which is headquartered in

Flint, said in May. "Today our foundations are stepping in to help. We envision a vibrant Flint with a robust economy, dynamic culture and healthy, thriving residents; and we're committed to achieving these goals."

Much of the funding will go to six priorities: ensuring all Flint residents have safe drinking water; meeting the health needs of Flint families; supporting early education; building a more robust nonprofit sector; promoting community engagement; and revitalizing the city's economy.

Bringing them on board

Great efforts are still in place to involve and inform Flint residents about what efforts are underway. Weaver continually holds town hall meetings at locations throughout Flint, including at local churches, the Hasselbring Community Center, Flint City Hall Dome and other locations to give Flint residents a chance to hear firsthand from city leaders information about projects, plans and other matters. Attendees can also pick up bottled water and filters at the meetings.

To aid in the distribution of information while also increasing resident

Public meetings have occurred around Flint, including at Hasselbring Community Center, local churches and other locations. In addition to receiving valuable information, attendees have been able to pick up drinking water and filters while attending the town hall-style gatherings. (Photo provided by the city of Flint)



involvement in solutions, the mayor has turned to the city's Water-Works program. The pilot program provides work opportunities for teens and young adults, who distribute needed nutritional information and clean water to Flint residents.

Additionally, the mayor and other city officials have encouraged local businesses to get involved in the recovery effort. At the end of May the city released its request for proposals, or RFPs, to get local business owners to participate in the city's Fast Start Initiative. Bids were closed June 21.

Still, no one has lost site of the precipitating factor in all of this. As Weaver said in her presentation, "Nothing less than a complete renewal of Flint's water system is needed, as well as enough money to provide health, education, economic and family services to the children and adults in Flint affected by the water crisis. We need the state and federal government to provide these badly needed funds." **M**



"We have to have instruction for our teachers on how to spot developmental and other problems in children affected by lead."

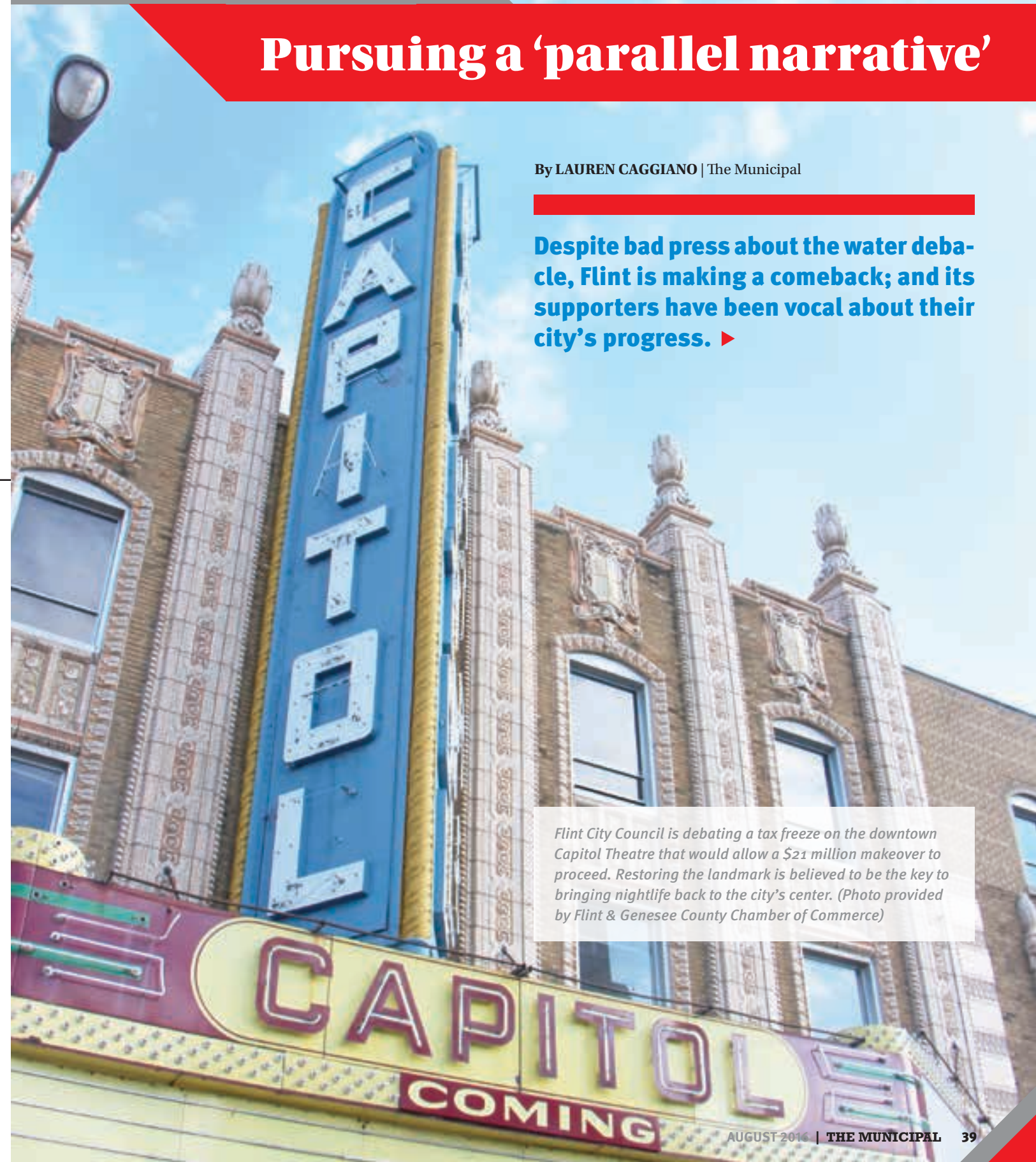
Flint Mayor Karen Weaver. (Photo provided by the city of Flint)

Flint, Mich. —

Pursuing a 'parallel narrative'

By LAUREN CAGGIANO | The Municipal

Despite bad press about the water debacle, Flint is making a comeback; and its supporters have been vocal about their city's progress. ▶



Flint City Council is debating a tax freeze on the downtown Capitol Theatre that would allow a \$21 million makeover to proceed. Restoring the landmark is believed to be the key to bringing nightlife back to the city's center. (Photo provided by Flint & Genesee County Chamber of Commerce)

STAY BETWEEN THE LINES

Make precision application a reality with the **Hi-Way® Xzalt®**. Featuring a unique directional spinner, the Xzalt allows operators to broadcast a 70:30 ratio of dry/liquid material precisely on one, two, or three lanes all from the convenience of the cab. The mixed material delivered produces less bounce and improves road adhesion, virtually eliminating over-application on roadside shoulders. The Xzalt also allows operators to achieve higher application speeds and maintain longer routes with fewer spreaders, improving their return on investment (ROI).



Determine your ROI with the Xzalt by becoming a VIP at www.HiWayVIP.com.

800-363-1771 • www.highwayequipment.com • © 2015 Highway Equipment Company. All rights reserved.



THE UNIVERSITY OF MICHIGAN, Flint campus, has been instrumental in the city's struggle for transformation. Chancellor Susan Borrego is among its Flint's cheerleaders; in fact, she relocated to the area from California in 2014 to be part of the positive energy she observed.

"One of the reasons I came was that the University of Michigan did not identify (its Flint campus) as a revenue generator, but an education hub," she said. In other words, the university is committed to bettering the city through higher education and economic development projects while not necessarily looking at the bottom line.

Founded in 1956 on a commitment to bring a quality Michigan education to Flint and the surrounding area, the satellite has been well received.

"This is a community that's both proud of the university and wants it to be successful," she said. "It's a community that made things happen."

"As partners in the community, it's important that we're engaging in research questions that enhance the quality of life (of the region)."

UM-Flint has been an anchor in the community and plans to keep the momentum going. In her words, "we're right in the thick of things."

One case in point is UM-Flint's front-facing approach to the water crisis. With an April 21 statement from the university, the campus made it known that university researchers had joined an initiative to "ensure community needs stay at the forefront in current and future research efforts in the Flint community." That initiative, the Healthy Flint Research Coordinating Center, brought together Flint's Community Based Organization Partners, the University of Michigan-Flint, the University of Michigan Ann Arbor and Michigan State University.

ABOVE: The UM-Flint campus has expanded its footprint in recent years, positioning itself as a catalyst for change in downtown Flint. (Photo provided)

BELOW: University of Michigan-Flint has made great strides in revitalizing Genesee County in recent years. The institution was ranked by U.S. News and World Report as a "Best in the Midwest" for 2015. (Photo provided)

UM-Flint also positioned itself as a leader in crisis communications. A partnership between Google and the UM-Flint and Ann Arbor campuses provided a smartphone app and other digital tools to



The UM-Flint campus has expanded its footprint in recent years, positioning itself as a catalyst for change in downtown Flint. (Photo by Jessica Morrow from Flint, Mich. — www.flickr.com/photos/afterimagephotography/4915161650, CC License: 2.0, commons.wikimedia.org/w/index.php?curid=11517318)

Flint residents and officials to help them manage the ongoing crisis. Made possible by a \$150,000 grant from Google, the tools predict where lead levels will be highest in the city's water, making the crisis easier to navigate for those affected.

While all eyes were on Flint during this contentious time, Borrego said she was cautious about keeping the end game in sight.

"This is a community that's both proud of the university and wants it to be successful."

"It was important to find ways to include a parallel narrative," she said. "We still needed to recruit students at the same time (as the water crisis)."

She pointed to 2015 as a significant year for the institution. In December UM-Flint received one of the largest donations in its history: a 16-story building featuring academic space, student housing and a conference center. Uptown Reinvestment Corporation donated the 340,000-square-foot Riverfront Residence Hall & Banquet Center to the university. Subsequent renovations were made possible by \$27 million in repayable grants

awarded by the Mott Foundation to URC's affiliate, the Foundation for the Uptown Reinvestment Corporation. The Mott Foundation is waiving the balance of those repayable grants to allow URC to transfer the property to UM-Flint.

That same month the university reopened the downtown Flint ice rink. According to Borrego, the move was another win for the university's image. Attracting people to the downtown means they might be inclined to visit the UM campus, a technique that can boost enrollment. Two months prior, the university had announced that it had

been authorized to purchase a portion of FirstMerit Bank's downtown Flint complex, which will allow for the first major expansion of the campus since the addition of on-campus housing in 2008.

Then, in the summer of 2015, the university added some color to the downtown — quite literally. UM-Flint and the downtown area both received a boost from the painting of historic University Pavilion, a complex that had closed after suffering unsuccessful attempts to attract visitors to its festival marketplace. In a statement, the university said the leaders of both entities viewed the paint ▶

BY THE NUMBERS

The Flint & Genesee Chamber of Commerce is bullish on the future of the city. Senior Communications Manager Bob Campbell provided the following 2015 year-end statistics from the organization's annual meeting:

Last year the city supported more than **\$1 BILLION** in total investment and contract value

- 42 investment projects generated an estimated \$338 million in annual payroll
- 3,471 jobs were created and retained
- 32 retention/expansion investment projects and 10 attraction investment projects were initiated in Genesee County

1,149 GOVERNMENT CONTRACTS were won, with assistance from the chamber's Procurement and Technical Assistance Center; 511 companies were counseled

\$129 MILLION IN TOURISM economic impact was incurred due to overnight hotel room rentals in Genesee County. Lodging revenue rose 7.8 percent, with occupancy at 54.3 percent

The county unemployment rate declined to **5.8 PERCENT**, compared to 7.8 percent in 2014. The city of Flint and Genesee County annual average unemployment rates are the lowest since 2000.

Flint's unemployment rate was **8.5 PERCENT** in December 2015. While it's not where officials would like, it's the lowest of the year and the best in 14 years.

The Flint Farmers' Market has become a true anchor in the downtown area. It is exceeding expectations and has tripled its foot traffic, seeing **750,000 PATRONS** the first year since its relocation.





rehab plan as a positive — a way to “extend the university’s reach downtown and add stability to the area.”

Looking to the future, Borrego hopes the university will continue to play a pivotal role in Flint’s resurgence. “As partners in the

community, it’s important that we’re engaging in research questions that enhance the quality of life (of the region).”

The Flint Farmers’ Market has also been praised for its contributions to local quality

The Flint Farmers’ Market makes a significant contribution to quality of life issues in Flint and is considered one of the top markets in the nation. Its directors have also put educational and outreach components in place and are fostering economic development by supporting entrepreneurs. (Photo provided by Flint & Genesee County Chamber of Commerce)

of life issues and is considered one of the top markets in the nation.

The original Flint Farmers’ Market opened in 1905. From 1940–2014 it opened each year in the same location northeast of downtown; two years ago it relocated back to the heart of the city.

A year-round public market with 50 vendors inside the building, it offers produce, meat, poultry, breads and baked goods, cheese, a wine shop, art gallery, cafe, Middle-Eastern and Mexican groceries and many

Ground Floor Market was the first new business to locate in the Dryden building, downtown, after it was purchased last year by a business investment company that anticipates developing it becoming a Flint icon. (Photo provided by Flint & Genesee County Chamber of Commerce)

unique gifts. Outside, from May through October, 25 produce and flower vendors set up in the pavilion. On Saturdays 15–20 art and craft vendors join them.

But the market is more than a transaction experience: There are educational and outreach components in place. Through a grant from the Ruth Mott Foundation, the entity partnered with Michigan State Extension and the Genesee Intermediate School District to combine nutritional education with supplemental SNAP benefits during the summer of 2010. That pilot program proved extremely successful and has been reintroduced.



The market is also investing in the future of agriculture. Three programs have received federal grants to build hoop houses, and the market provides them with rent-free space to sell their products. It has another agenda as well: fostering economic development by supporting entrepreneurs.

Like no other in the Midwest, the Flint Farmers’ Market has a state-of-the-art demonstration kitchen, rentable commercial kitchen, an incubator kitchen program called Flint Food Works and community rooms for private and public events — all under one roof. **M**

NATIONAL RENT-A-FENCE
800-352-5675
 rentnational.com

Superior SMOKE for TRAINING
 FD&C INTERNATIONAL Booth #3674
 MADE IN USA

Superior Classic Smoke
 Inexpensive • Easy to use • Disposable
 The most realistic Smoke for Fire Training & Disaster Simulation. Produces from 40,000 to 500,000 cu. ft. of dense white smoke.

ST-10 Smoke Machine
 Rugged • Dependable • Affordable
 Creates large volumes of non-irritating smoke for both indoor or outdoor training exercises. Quality at a great value!

ST-10 Fluid
 Dense Non-Irritating Odorless Smoke
 Proprietary high-quality formula
 100% Virgin USP Pharmaceutical Grade ingredients

ST-10 XP Fluid
 Premium XP Fluid maximizes density and hang time. Get more smoke with less fluid!

Can be used in most Competitive Machines. Available in 1 Gallon, 5 Gallon and 55 Gallon

www.SuperiorSignal.com/TM

TOTAL PATCHER V-GRADER

Maintain your secondary roads And gravel lots quickly and Efficiently with the V-GRADER from TOTAL PATCHER

FEATURES:

- 8 ft wide
- Replaceable carbide teeth.
- Can easily penetrate hard packed gravel to give you workable material.
- Can eliminate wash boarding and potholes.
- Compact size (5 ½ ft in length).
- Category III .3 point hitch.

TOTAL PATCHER
 1-866-892-4737
 E-mail: info@totalpatcher.com

Greensboro's pilot pipe bursting program



By JOHN DAVID THACKER | The Municipal

IN THE EARLY MORNING HOURS OF JULY 18, 2007, a 15-foot-by-24-foot sinkhole opened on Wendover Avenue in Greensboro, N.C., swallowing a Honda Accord. The sinkhole was caused by a 12-inch cast-iron water main that broke, eroding the earth beneath the road with 1,500 to 2,500 gallons of water a minute. The main was constructed in 1929 and, after nearly 80 years of service, proved its replacement value that morning.

But traditional dig and replacement methods of replacing water lines require excavating a trench the entire length of the project. The Greensboro Water Resources Department estimated that replacing 3,000 feet of the water line would cost over \$1.3 million and take six months, disrupting traffic on one of the city's busiest streets for much of that time.

The department began to explore newer techniques to repair the line. One method is pipe lining, a process that involves scraping deposits from the interior of the pipe and

then coating it with an epoxy lining to prevent further corrosion.

Pipe bursting is another new method of replacing underground water and sewer pipes without excavating the entire line. In this process, only two holes are dug: at

“We had never done that before—it was always traditional dig and replace.”

the beginning and the end of the section to be replaced. A steel cable is run through the pipe and attached to a bursting head, a metal cone slightly larger than the diameter of the old pipe. The new pipe, of ductile iron or fusible PVC, is attached to the bursting head. Then the head is pulled through the old pipe by a powerful hydraulic pulling system in the receiving pit. The bursting head breaks open the old pipe and pulls the new pipe after it.

ABOVE LEFT: In the early morning hours of July 18, 2007, a 15-foot-by-24-foot sinkhole opened in Wendover Avenue in Greensboro, N.C., swallowing a Honda Accord and making necessary a pipe replacement project. (Photo provided)

ABOVE RIGHT: This is one of several standard cutter heads used in static bursts. It can be used for both fractable and non-fractable pipes. (Photo provided)

Faced with the prospect of closing a major thoroughfare, Greensboro Water Resources initiated a pilot project to test pipe bursting as a method for replacing water lines.

Robbie Bald, engineering supervisor with GWR, explained why the project was so unique.

“For one, we were using a nonstandard product for us, (fusible PVC). Traditionally, all of our water lines have been iron. Another was the fact that we had not done any static

CASE STUDIES

Robbie Bald, Greensboro Water Resources engineering supervisor, has compiled the details of both of GWR's first pipe bursting experiences into an abstract. View it at docplayer.net/2627961-Greensboro-s-pilot-program-for-water-pipe-bursting-leads-to-expanded-city-wide-program.html.

“The impact to the residents and the traffic and everything else more than makes up for the cost, because the social cost is a lot less with the pipe bursting... it's a lot less intrusive.”

bursting on the sanitary system. It had all been pneumatic, so we were using a new process: and then also the fact that we were using a trenchless rehabilitation method on water lines. We had never done that before—it was always traditional dig and replace. So we did three new things. It was an acceptance not only of the process but the product, because we're a ductile iron town. So it was a matter of proving that our maintenance guys could be comfortable with PVC as part of a replacement program.”

They started small, bursting and replacing a 1,200-foot 4-inch cast-iron water main in a residential neighborhood. The department chose to replace the old main with a 6-inch fusible PVC pipe. The installation of the new line was deemed a success, and the pilot project moved on to its next stage: replacing the much larger and longer water main under Wendover Avenue.

At the beginning of the larger project, the department utilized another new technique: directional drilling, a technique of drilling holes horizontally underground. The city chose to install an additional 1,400 feet of 4-inch PVC pipe alongside the old iron pipe as a bypass to supply water to homes and businesses.

Once the bypass line was installed it tackled the bursting of the 80-year-old 12-inch cast-iron water main. Crews worked 24 hours a day in 12-hour shifts over three four-day weekends to burst the old main and replace it with a new ductile cast-iron pipe. Intersections where 6-inch pipes carried water from the main were excavated and replaced as the new pipe reached them.

The trenchless pipe bursting project proved to be cheaper, quieter and less disruptive than traditional dig-and-replace methods. The city spent \$770,000 on the project, saving about \$500,000. Instead of taking six months and closing a busy road, the job was completed over three four-day weekends.

Static pipe bursting is now the primary method of replacing pipes in Greensboro.

“There have been a couple of cases when we have gone in and done a traditional dig and replace,” Bald said. “But almost 90 percent of the time our replacement program is utilizing the static pipe bursting.” ▶



740.962.4328 * www.finleyfire.com

DEMOS AVAILABLE FOR IMMEDIATE DELIVERY

#1513 Finley TrailBlazer

- 2015 Ford 4 Door F350 XL Super Duty 4X4 Chassis
- 6.7 Liter Power Stroke Turbo Diesel Engine / Automatic Transmission
- 4 Wheel Drive w/ Lock Out Hubs
- Power Window & Door Locks / CD / MP3 / Radio / Air Conditioning
- Seating For 6 / Vinyl Interior For Easy Cleaning
- 2" Standard Receiver Hitch w/ Trailer Brake Controller & Plug
- Warn Stainless Steel Brush & Headlight Guard
- Custom Aluminum Mag Wheels & Off Road Tires
- Warn ZEON 10-S Winch w/ Synthetic Cable
- Whelen LED Lightbar / LED Warning Lights
- Whelen Siren & Speaker Package
- Aluminum Body
- 200 Gallon Water / 10 Gallon Foam Poly Tank
- CET 21 HP Pump Powered By HATZ Diesel Engine
- Hannay Stainless Steel Electric Rewind Reel
- 100'X1" Mercedes Boostlite Hose
- 1" Task Force Tips Twister Nozzle
- Trident Foamate Foam System



#1604 Finley TrailBlazer

- 2016 Dodge 3500 Heavy Duty 4 Door Chassis
- 6.7 Liter Cummins Turbo Diesel Engine / Automatic Transmission
- 4 Wheel Drive
- Power Window & Door Locks / MP3 / Radio / Air Conditioning
- Seating For 5 / Cloth Interior
- 2" Standard Receiver Hitch w/ Trailer Brake Controller & Plug
- Warn Stainless Steel Brush & Headlight Guard
- Custom Aluminum Mag Wheels & Off Road Tires
- Warn ZEON 10-S Winch w/ Synthetic Cable
- Whelen LED Lightbar / LED Warning Lights
- Whelen Siren & Speaker Package
- (2) FRC LED Telescoping Scene Lights
- Aluminum Body
- 200 Gallon Water / 10 Gallon Foam Poly Tank
- CET 24 HP Pump Powered By Honda Gas Engine
- Hannay Stainless Steel Electric Rewind Reel
- 100'X1" Mercedes Boostlite Hose
- 1" Task Force Tips Twister Nozzle
- Scotty Foam System



Pipe bursting is not always cheaper than dig and replace, however.

“A lot of times it’s a little more expensive,” explained Bald. “But the impact to the residents and the traffic and everything else more than makes up for the cost, because the social cost is a lot less with the pipe bursting... it’s a lot less intrusive.”

The process can also be much faster.

“I can put people on temporary water, get the pipe burst and turn it back on much quicker than I would if was doing traditional dig and replace. It probably cuts our time in half.”

Other communities have taken note Greensboro’s success with pipe bursting.

“With what we have done, certainly in North Carolina, fusible PVC has seen the light of day. We’ve had people from not only in state but out of state come up and look at our program. D.C. Water has been down to look at the process, and Raleigh is looking at it. So we’ve had quite a bit of interest. There’s been



LEFT: A piece of the old cured-in-place pipe is pulled back into the pit on the pulling side of the process. There is a steel plate that breaks the CIP as it gets to the machine. (Photo provided)

RIGHT: The new PCV comes into the receiving pit. (Photo provided)

FAR RIGHT: The pipe is attached to the bursting rods as it’s pulled back into the old CIP line. (Photo provided)

an expanded use statewide with it as a result of what we’re doing.”

Bald does not hesitate to encourage other municipal water departments to explore trenchless replacement methods.

“If you haven’t considered static pipe bursting, whether you’re using fusible PVC, HDPE or ductile iron pipe, it’s something you ought to consider. Given the experience we’ve had, we’ve proven that one, it



seems to be relatively cost effective. The semi-trenchless method certainly has less impact on residents, traffic and everybody associated with it. You can be comfortable based on the experience we’ve had and should get good results provided you have good contractors. We’re supporters of it, and that’s why we’ve been more than willing to have people come in and look at it.” **M**



Your search ends with us!

CIRCLE LIGHTS

We’re the largest, stocking, Streamlight distributor with products that are priced to sell!

STREAMLIGHT
Heroes Trust Streamlight®

Visit our web store @ www.store.circledlights.com or call us toll-free!

Circle D Lights
The Leading Name in Emergency Lighting

201.933.5500 www.circle-d.com 800.883.8382

Made with Pride in the USA • Natale Machine & Tool Co., Inc., Carlstadt, NJ 07072

CALHOUN

INTELLIGENT BUILDING SOLUTIONS

RETURN ON INVESTMENT. COVERED.

Keep maintenance costs low with a Calhoun fabric-covered structure, built to stand the test of time for a fraction of the cost of traditional buildings. Whether you need a structure to store Sand and Salt, Waste and Recycling or a multi-purpose storage structure, we can engineer a custom solution for you.

Our Strength is in Our Structure calhounsuperstructure.com 1-800-265-3994



Taking it to the streets

Public design process cultivates buy-in for road project

By JOHN DAVID THACKER | The Municipal

The people living near Charleston, S.C., rely heavily on Folly Road. It connects the islands to the mainland, it's the route to the beach and it's a destination for shopping and other businesses. So why do they despise it so much?

A poll of local residents revealed 62 percent of those who use Folly “hate” it. Only 8 percent had anything good to say about it. Most people described the road as “congested,” “crowded” and “dangerous.”

“It just doesn’t function very well,” explained Kathryn Basha, planning director for the Berkeley-Charleston-Dorchester Council of Governments. “It’s very heavily geared towards cars only.” Urban planning consultants with Dover, Kohl & Partners concluded that the route suffers from inefficient traffic operations, sporadic sidewalks, inadequate bike lanes, sparse landscaping and an infrastructure that cannot adequately support public transit.

But Folly Road is about to change for the better. “Rethink Folly Road: A Complete Streets Study” is a public design and planning project that re-envisioning it as improving the experience of pedestrians, cyclists, public transit riders and motorists.

“It looks at how to make the road function more efficiently, and at the same time accommodate ... motor vehicles and transit, bikes and pedestrians in a safe manner and improve the mobility of the corridor for people using it — then also make it more accessible from the neighborhoods behind the corridor,” said Basha. “We heard that there were people who live in the surrounding neighborhoods who would like to be able

ABOVE: A public design and planning project run by the Berkeley-Charleston-Dorchester Council of Governments in South Carolina has generated significant local goodwill and buy-in for the redesign of an often-congested and dangerous stretch of road near Charleston. (Photo provided)

RIGHT: Residents of the area surrounding Folly Road discuss various options for turn lanes, bike traffic and medians. (Photo provided)

to ride their bike up to the corridor rather than get in their car.”

The study is being conducted by the BCDCOG, one of South Carolina’s 10 regional planning councils. It seeks to provide local governments with planning and technical support to help them improve the quality of life in their region.

The portion of the road slated for improvement is nearly 8 miles long and stretches from Folly Beach in the south to the Wappoo Cut Bridge on James Island to the north. Almost 19,000 people live in the corridor. About 44,000 vehicles cross the Wappoo Cut Bridge every day, and approximately 9,300 cross the causeway to Folly Beach. This stretch of road runs through four jurisdictions: the city of Charleston, the town of James Island, the city of Folly Beach and unincorporated portions of Charleston County. Each of the four



ABOVE: Among the ideas generated by residents to improve utilization of Folly Road were: making it more convenient to reach the beach, upgrading transit, adding covered shelters and creating new connections between adjacent properties and the road. (Image provided)



ABOVE: The plan that emerged from Folly Road design charrettes includes adding covered shelters and making the road safer by building continuous sidewalks, frequent crosswalks and protected bikeways. (Image provided)



char·rette

SHə'ret/ (or [shuh-ret])
NOUN a meeting in which all stakeholders in a project attempt to resolve conflicts and map solutions.

(Oxford Dictionaries: www.oxforddictionaries.com/us/definition/american_english/charrette)

jurisdictions has pledged to collaborate in and support the design process.

Other stakeholders include the South Carolina Department of Transportation, which maintains the right-of-way; the Charleston Area Regional Transit Authority, which operates public transit on the road; and, perhaps most importantly, the people who use Folly Road daily.

The study has relied heavily on public input since it was introduced April 23, 2015, at a community kickoff meeting. Approximately 120 community members attended.

That May the public was invited to a weeklong public design charrette — a meeting in which stakeholders collaborate to resolve conflicts and generate design solutions. Groups of citizens brainstormed and met with members of the planning team in open studios. While public kickoff meetings and workshops are common, Basha said, “Having that charrette a whole weeklong, where people could drop in, that’s a little bit unusual.”

She described the sessions as very “hands-on.”

“In the charrettes they worked with to-scale maps — ‘Here’s the right-of-way; here’s how

much you have to work with. Where would you put the sidewalks? Where would you put the turn lanes?”

The project also gathered public feedback through written surveys and keypad polling. A website was launched at follyroad.mindmixer.com to facilitate online participation.

“One of the great things about technology is now we can do the online participation forums,” Basha said. “We can set up a website for a project and put it out there, and you can do online polling so residents who couldn’t make it to the public meetings can go in and give feedback on the different ideas that are coming out of the meetings. I think that helps generate more interest in being part of the upfront planning and visioning process.”

Basha also attributes the high level of public participation to the creative nature of the Rethink Folly Road project. “Because it was more design-oriented, I think for the general public that’s a little bit more exciting than looking at policies.”

Several ideas that surfaced during the charrettes gathered strong support among participants.

“One of the suggestions was about doing a ‘Folly Trolley,’ where you could do a

park-and-ride to the beach and have a shuttle to help with the congestion getting back and forth to the beach,” said Basha. “That’s thinking a little bit out of the box, but it’s feasible if you can figure how to do it funding-wise and coordinate it.” Ninety-one percent of study participants expressed support for the Folly Trolley.

After the charrette, the project steering committee refined the concepts. A community open house was held in August 2015 to gather more public feedback on the draft ideas and summary report. Five “guideposts” emerged from the design charrette to articulate an ideal future for Folly Road: that improvements should make the road safer, connected, green, valuable and synced. The changes will be implemented in stages beginning as early as fall.

Including the public in the design and planning phases of such a large project can encourage fresh ideas and increase public support for infrastructure projects. Basha views it as an integral component of urban planning.

“Planning is basically a public process, in my opinion,” said Basha. “When you are actually developing a plan, the public process is the thing that makes it successful or not.” **M**

**Guideposts from the executive summary of
"Rethink Folly Road: A Complete Streets Study"**

Folly Road can be made SAFER by:

- Building continuous sidewalks, frequent crosswalks and protected bikeways
- Using slower, safer "design speeds"
- Preserving evacuation routes

Folly Road can be CONNECTED by:

- Making it more convenient to reach the beach
- Upgrading transit: Make it faster and more frequent, add covered shelters, employ modern technology
- Creating new connections between adjacent properties and to and from Folly Road
- Adding cross-access easements, new street network segments and pedestrian paths to connect Folly Road, commercial parcels and surrounding neighborhoods

Folly Road can be made GREEN by:

- Modernizing stormwater infrastructure with creative, sustainable, memorable designs
- Increasing tree canopy; adding real street trees in the right-of-way
- Introducing landscaped medians and a range of public green spaces

Folly Road can be made VALUABLE by:

- Contributing to property values and daily life
- Improving business conditions with better building designs that look good and encourage walking
- Making possible gradual change and incremental development

Folly Road can be more SYNCED by:

- Optimizing traffic signal timing with modernized software
- Sharing costs and responsibilities
- Creating a joint design review body
- Appointing a project manager to oversee the whole suite of Folly Road improvements

www.doverkohl.info/reports/FollyRoadExecutiveSummaryandFAQ.pdf

Photo provided

**EIPL - Your Industrial
Dehumidification Experts**



Ebac Industrial Products Inc

East Coast Office: 700 Thimble Shoals Blvd, Suite 109, Newport News, VA 23606-2675
West Coast Office: 2060 Chicago Ave, Suite C7, Riverside, CA 92507
Toll Free 1-855-873-6800 www.ebacusa.com

**HEAVY TRUCK & BUS
FLOOR SERVICE JACKS & PIT JACKS**



Scorpion TJ14 lifts the whole axle in one lift, with built-in lock!

- 28,000# capacity
- low 8.5" profile
- extendable handle with remote
- built in lock, no stands required & much more

See the video at our website:

WWW.STANJACKS.COM

"The Ultimate Truck Service Jack"

STAN DESIGN
toll free (866) 782-6529 www.stanjacks.com

**Portable
FOL-DA-TANK
ONE SUPERIOR
SOURCE**

**INTRODUCING
THE NEW, PATENT PENDING
SINGLE LANE MAX TANK**

MAX CAPACITY FOR SINGLE LANE TANK SHUTTLE OPERATIONS ON NARROW ROADS

The SINGLE LANE MAX gives you 2.5x the capacity of a standard tank without obstructing water tender traffic!



Call TODAY to see how the SINGLE LANE MAX TANK can help YOUR department!

SAFETY ■ DURABILITY ■ QUALITY
www.fol-da-tank.com
1.800.637.8265



Traffic Guard Portable Speed Bump System

Easily deployed! Easily Retrieved!

This portable traffic calming system is designed for traffic control in temporary traffic patterns. Patented one-of-a-kind alerting system. Just roll it out and roll it up as needed.

- IDEAL FOR:
- Incident Management
 - Security Checkpoints
 - Flagger Utility Worker Safety
 - Civic Activities
 - Parking Garages



For more information or to place an order, call now!!
Ph: 847-488-9151 Fax: 888-312-8262
Website: www.astrooptics.com EM: sales@astrooptics.com

**Traffic
Guard**

Astro Optics is pleased to introduce the all New One of a Kind Traffic Guard Worker Alert System. Easily deployed and retrieved in seconds, this totally wireless system will quickly alert workers via Flashing light, Siren Alarm and personal vibrating device up to a 1000 feet away. When every second counts to get out of the way of impending danger the W-A-S can help save lives.

Standard Features:

- Wireless 12' trip hose with sensor
- Rechargeable flashing siren alarm with magnet & handle
- Initial 1000 Ft Range

Customizing Options:

- Various Hose Lengths
- Variable wireless distance triggering
- Personal safety vibration device
- Sequential siren box alerting
- Accessory Options



Community risk reduction in the fire service

One department's approach to keeping residents fire-safe



ABOVE: Some people believe fire prevention is only thought about during Fire Prevention Week in October and the occasional safety talk at the local elementary school. It's actually a year-round responsibility taken on by many fire service agencies, including the Streator Fire Department in Illinois. (Photo provided)

BELOW: Streator firefighters used a city map to identify where every local structure fire had occurred in the past five years. With over 125 structure fires plotted, they were able to identify areas with a higher occurrence of fire, and door-to-door canvassing for the department's Community Risk Reduction program started there. (Photo provided)

By **BRIAN GETTEMEIER** | Cottleville Fire Protection District

FIRST RESPONDERS NOT JUDGED equally when it comes to public safety. Police departments are judged by how few crimes occur in their communities: Few crimes means the police department must be doing an excellent job. Conversely, fire departments are judged by the number of structure fires; however, when fires are few, the public does not credit this to the fire department and often questions why it's needed at all.

It could be that fewer fires are the result of an effective prevention program. In fact, more and more fire service agencies are developing community risk reduction programs to ensure their citizens are safe.

The Streator, Ill., Fire Department proves you don't have to be a large department or have a large budget to develop a community risk reduction program.

Streator is a city of 13,600 located in north-central Illinois. The community has been deeply impacted by the downsizing of industrial America. The median income is \$40,611, with 18 percent of residents living below the poverty rate. The fire department runs 500 calls a year and, for the past five years, has averaged 25 residential structure fires per year.

When Gary Bird accepted the fire chief's job in Streator, one of his first orders of business was to meet with each firefighter individually and learn about the department and the community it serves: to identify what the department did well and areas for improvement or expanded services. Chief Bird quickly found that his organization responded to an above-average number of

One life saved but a tragedy still occurred

On Dec. 10, Streator Fire Department received a call for a residential structure fire. Just the weekend prior the fire department was at the home installing a smoke detector on the main floor.



Firefighters were not granted entry into the basement, but the main floor smoke detector alerted the resident to a fire in the basement and he was able to safely exit the structure. Tragically, two residents who were occupying the basement, where the fire started, lost their lives. Three firefighters were injured.

Basement fires represent one of the largest challenges to firefighters in a residential structure fire. A single staircase, compromised by fire and filled

with high heat escaping the basement, makes it challenging for the firefighters to make entry with protective gear and almost impossible for a citizen to escape without early warning.

This incident highlighted the very efforts the firefighters are working on through the smoke detector program. Early warning increases the occupants' time to get out, increasing their survival profile.

A residential fire triples in size every minute. Every second counts. The earlier a fire is detected and reported to the fire department, the greater chance of success to save the structure and reduce the risk of injury or death to the occupants and to firefighters.

Shutterstock photo



The Streator Fire Department's Community Risk Reduction program is a multifaceted grassroots initiative to keep citizens fire safe throughout the year. The smoke detector program served as its cornerstone. Firefighters are knocking on the doors of all 6,000 residential structures to offer to check the detectors and provide and install new ones free of charge. (Photo provided)

structure fires for a community its size. More troubling was the fact that there had been five fatalities due to fires in the past five years.

"As firefighters, we see firsthand the devastation fire causes as it consumes a citizen's home and possessions," said Chief Bird. "These tragedies are not limited to family; they affect the community and they affect the firefighters. I never want to see another citizen lose his life in a fire again."

The Streator Fire Department Community Risk Reduction program was developed out of these meetings. This grassroots effort to keep citizens fire safe throughout the year was a multifaceted approach, and the smoke detector program served as cornerstone for the efforts.

The fact of the matter is some of the citizens most vulnerable to fires do not have the financial means to purchase a smoke detector. The goal set by the firefighters was to knock on the doors of all 6,000 residential structures to offer to check the smoke detectors and provide detectors free of charge to citizens who needed them.

Effective planning

The department approached the local Red Cross and asked for assistance with the program. The Red Cross is an organization very familiar with the devastating effects of fire, as its volunteers provide emergency shelter and clothing to people displaced by it. Through its community partners, the Red Cross provided dual-sensor, 10-year lithium ion battery detectors free of charge to the cause.

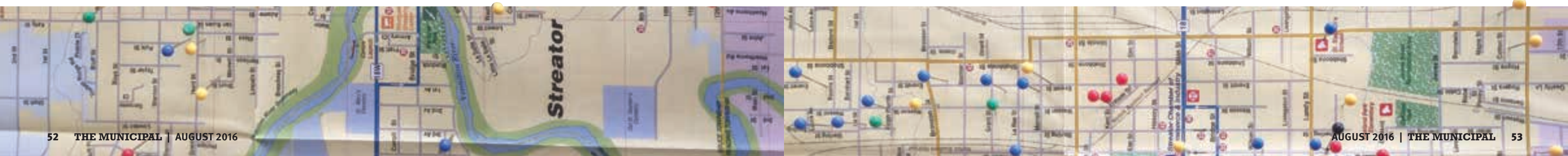
Firefighters then used a city map to identify where every structure fire had occurred in the past five years. Door-to-door canvassing started in the areas of higher occurrence and is currently working into areas of lower occurrence. They also went to the local media to promote the program, stating that citizens who needed smoke detectors could call the fire station and set up an appointment for firefighters to install a new one. Online videos were used as a recruitment tool to get volunteers to help out.

"Everyone we talk to while knocking on doors gets a safety message on exit drills in the home, natural gas and carbon

monoxide leaks and tornado safety," Chief Bird explained. If no one answers the door or if the residents state they have working smoke detectors, they are left a door hanger with information and the fire department's phone number. On an average weekend, 100 smoke detectors are installed.

As a fire department, fighting fires is not the only responsibility. During some visits crews have identified and mitigated immediately dangerous situations such as natural gas leaks and carbon monoxide problems. For example, during smoke detector installation efforts, firefighters found three natural gas leaks the homeowners were not even aware of. "We have potentially mitigated an incident before it even occurred," said Chief Bird.

To date, these efforts have covered about 25 percent of the city; the goal is to complete the project by October. Streator Fire Department and its community partners visited 1,397 homes, installed 818 detectors and checked 292 homes already equipped with detectors in the first six months of the program. ▶





When Chief Gary Bird assumed leadership of the Streator Fire Department last year, the organization was responding to an above-average number of structure fires for a community of its size. Meetings with firefighters and community stakeholders led to the creation of a risk reduction program to address the problem. (Photo provided)

More than smoke detectors

While the community risk reduction's cornerstone project is smoke detectors, the fire department has taken on other opportunities to expand the services it provides citizens, with the end goal of reducing injury and deaths.

The Life Safety Inspections of Businesses Program started in February. There are two goals: The first is to reduce the risk of fire occurring in a business, because the loss of a business impacts an entire community. The

second is to ensure that all occupants can safely exit if a fire does occur in a commercial structure.

Another initiative is the Medical First Responder Program. In Streator, emergency medical service is provided by a local, private EMS service. In January, all Streator firefighters attended medical first responder training and in April, the Illinois Division of EMS approved Streator Fire Department to provide first responder services during EMS calls.

DID YOU KNOW?

A person has less than three minutes to escape a home from the point of fire ignition, and a \$30 plastic smoke detector provides enough early warning to do so safely. But smoke detectors must be replaced every 10 years to ensure maximum protection.

There are many advantages to a first responder program. In the event the ambulance is on another call, the fire department can immediately respond to the request for service and will have some experience providing basic life support care. Secondly, it builds a relationship between the local ambulance service employees and the fire department. This relationship and trust is invaluable during the care of the critically sick and injured.



On selected weekends, members of the fire department are joined by citizen volunteers from the American Red Cross, service clubs, high school clubs and residents to canvas a target area by knocking on every door. (Photo provided)

Another reason is that it provides more people to carry the patient out of the residence. This adds safety for the patient and prevents injury to EMS and fire service members. The final reason is that it provides an opportunity for the fire department to interact with the citizens and ensure the

resident's smoke detector is working, inform him about the safety services the fire department offers and identify immediate safety hazards such as natural gas leaks and carbon monoxide leaks.

These innovations that expanded the services of the Streator Fire Department

occurred with a minimal effect on its budget. Its success is due to the hard work and dedication of the members of the department, generous contributions from community partners and the commitment of citizens to make the community safe. These programs have already saved one life, and countless lives have been impacted for the better. **M**

Brian Gettemeier has been in the fire service for 23 years, the last 20 as a career firefighter with the Cottleville Fire Protection District of St. Charles County, Mo. He is a second generation firefighter with a bachelor's degree in fire service management from Southern Illinois University at Carbondale. He holds numerous state certifications and teaches all-hazard classes for numerous organizations throughout the state of Missouri.

Gettemeier is also a freelance writer who has authored several articles for fire service trade journals.

Your **MUNICIPAL HEADQUARTERS**

Snowplow • Scrapers • Hitches • Wings • Spreader
Anti-ice • Pre-wet • Vegetation • Combination • All Season Bodies

Municipal Work-Ready Vehicles for Immediate Delivery!
View online at www.monroetruck.com

NAPA AWARDED CONTRACT
Contract # 080114-MTE

MONROE TRUCK EQUIPMENT

For more information call or visit us online at:
800-356-8134 www.monroetruck.com

Monroe Truck Equipment
1051 W. 7th Street, Monroe, WI 53566

INTRODUCING CNG
Sweeper with more Power

Exceptional Visibility is simply a Bonus!

GLOBAL ENVIRONMENTAL PRODUCTS

There's a way to do it better - find it!
Thomas A. Edison

www.GlobalSweeper.com

For a complete list of all upcoming events please visit themunicipal.com/events.

To list your upcoming conference or seminar in The Municipal at no charge call (800) 733-4111, ext. 2392, or email the information to jmarlin@the-papers.com.

AUGUST

Aug. 14-17 Institute of Transportation Engineers 2016 Annual Meeting & Exhibit
Anaheim Marriott, Anaheim, Calif.
www.ite.org/annualmeeting

Aug. 16-17 Midwest Security & Police Conference/Expo
Tinley Park Convention Center, Tinley Park, Ill.
www.mspce.com

Aug. 16-18 American Association of Motor Vehicle Administrators Annual International Conference
Williamsburg Lodge, Williamsburg, Va.
www.aamva.org

Aug. 17-20 International Association of Fire Chiefs Annual Conference & Expo (Fire-Rescue International)
Henry B. Gonzalez Convention Center, San Antonio, Texas
www.iafc.org

Aug. 18-20 Florida Municipal League Annual Conference
Diplomat Resort, Hollywood, Fla.
www.floridaleagueofcities.com

Aug. 21-24 NIGP Forum — Annual Meeting
Gaylord National Resort & Convention Center, National Harbor, Md.
nsite.nigp.org/forum2016

Aug. 22-25 StormCon, the SurfaceWater Quality Conference & Expo, & WasteCon 2016
Indiana Convention Center, Indianapolis, Ind.
www.stormcon.com;
swana.org/Events/wastecon.aspx

Aug. 27-30 International Municipal Signal Association Forum & Expo
Renaissance Atlanta Waverly & Dobb Galleria, Atlanta, Ga.
www.imsasafety.org

Aug. 28-31 American Public Works Association Public Works Expo (PWX)
Minneapolis Convention Center, Minneapolis, Minn.
www.apwa.net/PWX

Aug. 29-Sept. 1 Florida Recreation & Park Association Annual Conference
Caribe Royal Resort, Orlando, Fla.
www.frpa.org/conference/confgeneral

SEPTEMBER

Sept. 11-14 Southeast Governmental Fleet Management Association Annual Meeting
Myrtle Beach Hotel & Convention Center, Myrtle Beach, S.C.
www.sgfma.org/sgfma.php?incfile=annual_meeting

Sept. 11-14 Missouri Municipal League Annual Conference
St. Louis Union Station, St. Louis, Mo.
www.mocities.com/?page=AnnConf

SEPTEMBER

Sept. 11-14 American Public Transportation Association Annual Meeting
JW Marriott, L.A. LIVE, Los Angeles, Calif.
www.apta.com/mc/annual

Sept. 14-16 Michigan Municipal League 2016 Convention
Grand Hotel, Mackinac Island, Mich.
www.mml.org

Sept. 22-24 Illinois Municipal League 103rd Conference
Hilton Chicago Hotel, Chicago, Ill.
conference.impl.org

Sept. 24-28 Water Environment Federation Annual Technical Exhibition & Conference
Ernest N. Morial Convention Center, New Orleans, La.
www.weftec.org

Sept. 25-27 Society of Fire Protection Engineers North American Conference & Expo
Denver Marriott City Center, Denver, Colo.
www.sfppe.org/?page=Denver2016

Sept. 25-28 ICMA Annual Conference
Kansas City Convention Center, Kansas City, Mo.
icma.org/en/icma/events/conference

Sept. 25-28 International Economic Development Council Annual Conference
Cleveland Convention Center, Cleveland, Ohio
www.iedcevents.org

Sept. 26-28 F.I.E.R.O. Fire Station Symposium
Sheraton Ridge Raleigh Hotel, Raleigh, N.C.
www.fierofirestation.com

Sept. 26-28 Midwest Green Fleets Forum & Expo
Greater Columbus Convention Center, Columbus, Ohio
www.cleantuelsohio.org/midwest-green-fleets-forum-expo

Sept. 26-30 Emergency & Municipal Apparatus Maintenance Symposium
Ohio Fire Academy, Reynoldsburg, Ohio
www.oaevt.org

OCTOBER

Oct. 3-7 EMS World Expo & World Trauma Symposium
Ernest N. Morial Convention Center, New Orleans, La.
emsworldexpo.com

Oct. 4-5 Sustainable Cities Network Growing Sustainable Communities Conference
Grand River Center, Dubuque, Iowa
www.gscdubuque.com

Oct. 4-6 Indiana Association of Cities & Towns Annual Conference & Exhibition
French Lick Springs Hotel, French Lick, Ind.
www.citiesandtowns.org/ac

KBW BannerFlex
Airrow
Banner Mounting Hardware
The Industry Standard

CONSORT
DISPLAY GROUP
Trust the innovators!

www.consort.com
info@consort.com
800-525-6424

LED Safety Signs & Signals

- Firehouse Door Signals
- Municipal Garage Signs
- Parking Garage Signage

Call or Visit Online Today

iSIGNS
Innovative sign technologies
www.isignsled.com
866-437-3040

PHASE-A-MATIC

DO YOU NEED 3-PHASE POWER at your 1-phase location?

PHASE CONVERTERS

Easily convert your single-phase utility power into 3-phase power to run virtually any three-phase machine at your 1-phase location. Converters to run all types of loads: Motor/Resistive/Transformer/CNC

1-800-962-6976
www.phase-a-matic.com **STATIC & ROTARY CONVERTERS**

Seat Warehouse | Quality Replacement Seats

Call 855-700-SEAT (7328) | www.seat-warehouse.com

Install Dyna Beads®
For: Fleets

- TPMS FRIENDLY
- NON ABRASIVE
- NO REBALANCING
- INCREASE TIRE LIFE

www.dynabeads.com
(866) 352-7251

Ultimate TIRE BALANCING

Dust isn't a great condiment at picnics.

Keep dust down with a spray of Mineral Point Dust Suppressant.

Available in bulk and tote.

Mineral Point
312-802-2244 • mineralpointliquid.com

Ultimate Protection, Maximum Comfort
Complete Line Of Leather Protectors And Work Gloves

THE POWER GRIPZ
PATENT PENDING
.COM

Call Toll Free: 1-877-271-0444

GET A GRIP ON SAFETY

Industrial-Grade Pressure Washers

WATER CANNON

Watercannon.com
800.333.9274

Sell assets without the hassle

Where to begin when there's extra or aging equipment to sell



IT'S A CHALLENGE THAT EVERY municipal government faces periodically — what to do with trucks, police and government vehicles, special equipment, office furniture and other items that are no longer needed. It can be one more problem to sort through with limited time and resources.

Here's a solution that can make the process easy and seamless: ADESA Specialty Auctions.

ADESA Specialty Auctions provide a simplified way to sell a wide variety of trucks, equipment and vehicles. The company offers eight auction locations across the U.S. dedicated to heavy-duty trucks and equipment and 23 locations focused on recreational vehicles, marine and powersports. ADESA's specialty auction services are backed by a network of 60 auto auctions in the U.S. and 14 in Canada - all of which have the ability to service local municipalities.

ADESA's mobile auction option can simplify the transactions even further, according to Jane Morgan, president of the ADESA specialty sales division.

"We can bring the auction to the customer," said Morgan. "Our mobile unit has online capabilities so that a dealer can register to buy or sell. We can check in units, sell units, collect payment, work titles and release the vehicles, all from the lot. Dealers can even buy remotely."

ADESA's specialty division has a dedicated team that has been fully trained on the complete range of specialty, truck and equipment products. "They can provide accurate, detailed information on all available units," said Morgan. The team is backed by support and specialty managers at the physical auction locations.

Morgan stressed that specialty auction clients receive the same attention and customer service as wholesale car clients. She said that the experience is consistent across



Left 4 photos from Shutterstock.com; Above photo provided.

ADESA's specialty auction services are backed by a network of 76 auto auction locations across North America. ADESA, its parent company KAR Auction Services, and related subsidiaries offer a range of services to streamline selling excess and aging equipment, including these options:

- Specialty transportation solutions: ADESA offers pre- and post-sale vehicle transportation, 24/7 real-time tracking and delivery notification, and end-to-end service and support.
- Full reconditioning services: Mechanical, body and detail services are available to get equipment in top shape so it can bring top dollar bids.
- Condition reports on every unit: ADESA's condition reports deliver an organized presentation of vehicle-condition factors, ensure consistent announcements across all channels, and are easy to read from desktop and mobile devices. Condition reports are especially key to online sales, where buyers don't have the option to see the item in person.
- Inspection and certification programs: ADESA's ProView service delivers a thorough inspection of all aspects of the vehicle. Alternatively, the QuickLook inspection for late-arriving vehicles includes a basic inspection and photos.
- Guaranteed title and payment: ADESA works with buyers and sellers to produce clear titles, and items aren't released to the buyer until proper payment has been collected.
- Online market reports: It takes good information to make smart pricing decisions. ADESA offers up-to-date information that combines both in-line and online vehicles

"We can bring the auction to the customer," said Morgan. "Our mobile unit has online capabilities so that a dealer can register to buy or sell. We can check in units, sell units, collect payment, work titles and release the vehicles, all from the lot. Dealers can even buy remotely."

all locations, with the same certification programs and the same condition report standards; but services are provided by team members with additional expertise in the specialty market.

"We educate our clients, too, helping them to understand their products through a training program by segment or an Auction 101 if they have never used auctions," she said. "We share our data and our expertise — we price inventory every day so we can help them determine the value of their assets based on our data and on our experience. Our pricing requires a lot of analysis because there's so much variety in what crosses the blocks during a specialty sale.

"Our main goal is to always provide exceptional personalized service and to best support our customers," added Morgan

The ADESA network offers multiple sales channels: in-lane, online and mobile auctions. Its in-lane heavy truck and equipment auctions are open to the public, which gets trucks and equipment in front of more buyers to ensure clients a good return.

Online auction options put inventory in front of buyers who might not come to a particular auction site. With ADESA Live-Block, buyers can join the action online as it

"Our main goal is to always provide exceptional personalized service and to best support our customers."


— Jane Morgan

happens live. They can bid alongside other dealers through real-time feeds. With ADESA DealerBlock, buyers can participate in bid-now events or purchase right away with buy-now pricing.

The mobile auctions are an exciting opportunity, said Morgan. "We've held a number of mobile events already, and we're looking forward to having more, for various areas of the country, each with its own staff."

To get started unloading aging trucks and equipment, contact Al Kelly, national specialty manager, at (980) 254-4168. Visit ADESA Specialty Auctions online for sale dates and locations at ADESA.com/auction-types. For all truck and equipment needs, visit ADESARIGS.com. ■


Information provided by ADESA Specialty Auctions.



2004 GMC C7500
Duramax diesel, 5+2 sp. trans., AM/FM, AC, TS, CC, exc. tires, Ox Body dump bed with elect. tarper, air tailgate & pintle hitch. 33,000# GVW. This truck is immaculate! **\$37,500**
NASHVILLE, TN • 615-200-4265
CAPITALCITYTRUCK@COMCAST.NET



2005 Isuzu NPR HD
5.2L turbo diesel, AT, crew cab, excellent tires w/ 8 yard New Way rear load packer with dumpster attachment and winch. 158,000 mi. **\$39,500**
NASHVILLE, TN • 615-200-4265
CAPITALCITYTRUCK@COMCAST.NET




2010 International 7400
300 hp. Maxforce 9 engine, Allison 5-sp. AT, AM/FM stereo, CC, AC, camera system, 78,000 act. mi., with a Heil 27 yard commercial Powertrack rear load body. **A steal at only \$79,500!**
NASHVILLE, TN • 615-200-4265
CAPITALCITYTRUCK@COMCAST.NET




Case Backhoes
Many to choose from, w/lots of different opts. 580s & 590s. SLs & SMs, all cab, 4WD, EXT. Call for availability. Many 2005-2011 Case Backhoes to choose from. We buy Case backhoes.
DALEVILLE AGGREGATES • DALEVILLE, IN
DALEVILLESANDANDGRAVEL.COM • DALEVILEAGG@YAHOO.COM • 765-208-0551




(2) Used Sho-Me LED Light Bars
Model #32, 49", red/blue LEDs, take down lights and alley lights included in both units. **\$300 each or \$500 for both**
VILLAGE OF FONTANA POLICE DEPT. • FONTANA WI
FOR MORE INFORMATION CALL 262-275-2275




2008 GMC C7500 Dump
7.8L Duramax diesel, Allison AT, new contractor's dump, double frame, 102,000 mi, Stk. #P15091..... **\$39,980**
GENERAL TRUCK SALES • MUNCIE, IN
765-289-4481 • 800-382-7717
WWW.GENERALTRUCKSALES.COM



2002 Johnson 3000 Streetsweeper
23,000 mi., AT, AC, radio, Powertech John Deere motor, only 3,000 hrs.
Tessone Special: \$35,500
TESSONE MOTORS • LOCKPORT, IL
815-838-4363 • TMOTORS1801@COMCAST.NET



2005 Freightliner M2
C7 Cat, Allison AT, AC, new front tires, 91,000 mi. equipped w/ a 20 yd. Heil 5,000, dual cart tippers and front mount pump. Excellent truck! **\$59,900**
NASHVILLE, TN • 615-200-4265
CAPITALCITYTRUCK@COMCAST.NET



2007 Sterling SC8000 (Freightliner)
5.9 Cummins, Allison AT, AM/FM stereo, AC, CC, htd. mirrors, exc. tires, Elgin Whirlwind Sweeper, only 47,000 act. mi. and super nice. **Only \$59,900!**
NASHVILLE, TN • 615-200-4265
CAPITALCITYTRUCK@COMCAST.NET




Landpride Tractor Attachments
All flex mowers, rotary cutters, over seeders, flail mowers, side arm mowers, offset mowers, power rakes & snow blowers. Government contractor programs. We ship parts anywhere.
CROSBY EQUIPMENT, LLC • TOLEDO, OH
419-865-8820 • CROSBY-EQUIPMENT.COM



How To Get a Fair Price
Get a Fair Price For Your Department's Used Fire Truck. 1-Minute Video:
www.youtube.com/user/FiretecFireTrucks
FIRETEC USED APPARATUS SALES
800-FIRETEC (347-3832)
WWW.USEDFIRETRUCKS.COM



Move Cars with your Forklift!
The Forklift Wrecker is an attachment that allows anyone with a forklift to move cars quick and easy, no hydraulics. See it in action at forkliftwrecker.com Made in the USA. . . **\$2,145 + freight**
PHONE: 877-593-6959
FORKLIFTWRECKER.COM




2005 Freightliner Condor Vactor 2110
Cummins ISL/310hp w/all new injectors, 6 sp. Allison RDS3000, 20/46 axles, dual p/s, 16,599 total ECM hrs., 15" vacuum, pos. displacement, 10 yd body, 40 gpm @ 2,000 PSI water, Vactor model 2110-HR80/4215, 152,670 mi..... **\$44,500**
MOSER MOTOR SALES, INC. • BERNE, IN
800-448-7439 • WWW.MOSERFORD.COM




2006 E-One Advantage Rescue Command Center Fire Truck
Mint condition, loaded, ready to work, low miles. Reduced to **\$99,000**
CALL VISONE RV • 606-843-9889



2000 E-One Pumper Truck
City truck, 1250 GPM and 500 gal. tank, ready to work. Reduced to **\$35,000**
CALL VISONE RV • 606-843-9889



Hackney Service Van Shelving
Hackney aluminum and metal shelving packages for Ford Transit and box trucks. Maximizes internal storage capacity. Easy user install or ship thru options.
FOR PRICING VISIT
WWW.VTHACKNEYPARTS.COM



New Transit/Hackney Service Body
In Stock 2015 Ford Transit 370 HP/V6 gas/10,360 GVW with Hackney 12' 1/2" body complete with service shelving and trays.
Call for Price
VIEW INVENTORY AT
WWW.HACKNEYSERVICE.COM



The Road Groom maintains loose material road beds faster and cheaper, with less stress on the road than a conventional road grader. With 31' of cutting blades, the Road Groom cuts, spreads, and fills in one easy operation, with grading speeds up to 20 mph.
SWIHART Sales Company - Road Groom -
800-864-4595 or 785-754-3513
www.swihart-sales.com



THE MUNICIPAL
WWW.THEMUNICIPAL.COM
Mailed direct to:
City Managers, Fire/Rescue, Police, Street/Highway, Parks, Utility/Public Works, Fleet/Transportation and Facility Managers
Every issue online!
CALL YOUR MUNICIPAL SALES REPRESENTATIVE TODAY
(866) 580-1138 Ask for Municipal Sales



APWA applauds U.S. House formation of public works and infrastructure caucus

WASHINGTON, D.C. — In June

The American Public Works Association applauded Congressman Ryan Costello (PA-o6) and Congresswoman Dina Titus (NV-o1) on their formation of the U.S. House Public Works and Infrastructure Caucus. The bipartisan caucus was formed to raise awareness of the critical importance of public works and infrastructure. It will be invaluable for educating members of Congress, their staffs and the public on the important services and projects communities across the country depend on, including roads and bridges; drinking water; flood control and stormwater, recycling; solid waste removal; parks and recreation; public fleets and building; and emergency response.

APWA also commended the House Public Works and Infrastructure Caucus as a means to educate Congress and the public on the need for greater investment in critical infrastructure, which is vital to the economy.



City of Dublin obtains CLEANFleet certification

DUBLIN, OHIO — The city of Dublin has obtained Tier 5 CLEANFleet certification from the Coalition for Green Fleet Management. This, in addition to its Certified Fleet Management Operation designation, makes Dublin a Master Certified Fleet operation.

Dublin is one of only eight fleets in the U.S, and the only one in Ohio, to achieve this certification. The CFC is comprehensive as its standards require everyone involved in the operation, including senior management and/or elected officials, to support best practices and the responsible use of the funds needed to attain high standards.

The program is structured in five progressive steps, known as tiers, allowing fleet operations to be recognized for their accomplishments. Each tier requires progressively more involved standards for certification. The top tier, Tier 5, is designed for highly advanced fleet operations. All tiers are valid for one year before requiring recertification.

While the certification program recognizes fleet operations for their current accomplishments, it also clearly identifies a pathway for operations looking to improve their current processes. ▶



Henderson Products' Gilberts location moves

MANCHESTER, IOWA — Henderson Products, a division of Douglas Dynamics Inc., is excited to announce that its Illinois Installation & Distribution Center has moved to Huntley, Ill. The new address is 11921 Smith Drive, Huntley, IL 60142.

In 2011 Henderson Products opened its fifth installation and distribution center in Gilberts, Ill., to better serve its customer base in the Chicagoland area. Over the past few years, the company experienced incredible growth, growth that finally outpaced the capacity available at the Gilberts location. In order for Henderson to maintain a high level of customer service and support, company officials knew change was needed.

Ideal accommodations were found in the village of Huntley, just 15 minutes away from the old location. The new facility totals 28,000 square feet, has multiple drive-through installation and service bays, a wash bay and seven acres of secure paved parking. Ready for the long haul, this location will provide a first-class experience for Henderson customers and has capacity to handle future growth.



Columbus fleet renews ASE certification

COLUMBUS, OHIO — The Columbus, Ohio, Department of Fleet Management received word in late spring that its professional staff has continued to meet the Blue Seal of Excellence Recognition Program standards established by the National Institute for Automotive Service Excellence. A plaque was awarded for the achievement.

Kelly Reagan is administrator of the Columbus fleet. The department will remain certified through April 30.



Aladtec Inc. announces move of headquarters

RIVER FALLS, WIS. — Privately held Aladtec Inc. announced in June its move to 387 Arrow Court, River Falls, Wis. After being located in Hudson, Wis., for

nearly six years, with a satellite office in River Falls, the company chose a larger office space in order to be in one location and have room for future expansion plans. The move allows 30 Aladtec's employees to work under one roof, while two staff members telecommute.

"We are grateful to Aladtec for their decision to expand in River Falls, Wisconsin," said William Rubin, executive director, St. Croix Economic Development Corporation, St. Croix County, Wis. "Aladtec could have easily drifted across the border to Minnesota, but didn't. Aladtec has roots in River Falls, and as they continue to grow, I know they will find numerous local resources to stay on their upward track towards greater success."

Aladtec is an online employee scheduling and workforce management company focusing on the public safety sector. From its new River Falls office the company continues to develop, market, sell and support the Aladtec online software application.



APWA collaborates with water organizations to identify areas of change to the water sector

WASHINGTON, D.C. — The American

Public Works Association and leading water associations, including the American Water Works Association, Association of Metropolitan Water Agencies, National Association of Clean Water Agencies, National Association of Water Companies, Association of Clean Water Agencies, Association of State Drinking Water Administrators and the Water Environment Federation, in collaboration with the U.S. Environmental Protection Agency, recently released "Taking the Next Step: Findings of the Effective Utility Management Review Steering Group," a report that identifies areas of change in the water sector since the organizations began collaborating in 2007. The report outlines changes to the "Effective Utility Management 10 Attributes of Effectively Managed Utilities," or building blocks, of effectively managed water sector utilities, and five keys to management success.

The key areas of change in the water sector that drove the organizations' release of the "Taking the Next Step" report include:

1. Accelerated adoption of automated and smart systems, and data integration
2. Growing climate variability and extremes
3. Enhanced customer expectations and public awareness
4. Expanded challenges associated with employee recruitment and retention
5. Increased focus on resource recovery
6. Continued regulatory requirements and operating condition changes
7. Greater consideration of stormwater and watershed management



American Traffic Safety Services Foundation announces scholarship recipients

FREDERICKSBURG, VA. — The American Traffic Safety Services Foundation recently awarded new 2016 Roadway

Worker Memorial Scholarships to five students. The scholarships are awarded to dependents of workers killed or permanently disabled in roadway work zone crashes, to assist them in continuing their academic goals. Additionally, scholarship recipients who demonstrate a strong commitment to volunteerism were eligible for a \$1,000 scholarship in honor of former ATSSA member Chuck Bailey. Bailey was killed in a tragic highway accident in 2002.

The 2016 recipients are:

Andrea Pair, Oklahoma, will also receive the additional volunteer scholarship. Pair's father worked for Time Striping Inc. in Arkansas, where he was removing pavement marking from a highway when a vehicle struck and killed him. ▶

HUSKY'S LEADING EDGE TANK (PATENT PENDING)

Husky's Leading Edge Tank (patent pending) is a multipurpose tank. Husky designed a frame that allows a person to take any size folding frame tank and partially fold one side, creating a narrower tank with more options for setup — including back roads, where it allows traffic to pass without driving in the ditch. It's the two-in-one tank!

Husky Portable Containment

Bartlesville, Okla.
(800) 260-9950
www.huskyportable.com



ALTOSID LARVICIDE

The original insect growth regulator, Altosid Larvicide is a reliable resource for abatement professionals to help stop the emergence of adult mosquitoes. Altosid formulations, including briquets, liquid, pellets, granules and water soluble pouches, are available to fit a variety of applications. Learn more about Altosid Larvicide at centralmosquitocontrol.com.



Central Life Sciences

Schaumburg, Ill.
(847) 330-5332
www.centrallifesciences.com

Since 1999

The Original

Beet Juice

ICE BITE-Liquid De-Icer

Road Solutions, Inc.

Road Solutions, Inc. is in its 16th year of supplying "The Original Beet Juice"

Use ICE BITE, an excellent OBPE (Organic Based Performance Enhancer), to blend or replace salt brine, calcium chloride, and magnesium chloride. ICE BITE will lower your application costs and aid in compliance with the Storm Water Act.

800-428-3266
www.cpiroadsolutions.com

CHECK WEBSITE NOW FOR MORE DETAILS ON THESE AND OTHER CURRENT ITEMS! NEW ITEMS DAILY!

BID, BUY & SELL AT

www.WisconsinSurplus.com

Everything sells at online auction to the highest bidder – Bid online now!!

BUY & SELL YOUR SURPLUS MUNICIPAL OR BUSINESS ITEMS!

1-800-383-SOLD

WISCONSIN SURPLUS

ONLINE AUCTION

Registered Wisconsin Auction Company, License #01
Cars @ Auction Sales - Used Car Dealer #3887
202 W. Front St. - Mount Horeb, WI 53572-0113
(608) 437-2001 - bid@WisconsinSurplus.com

ACT NOW ... AUCTIONS ENDING DAILY!

*VEHICLES & ITEMS ARE SUBJECT TO AUCTION CLOSING DATES.

Lyndsay Sutton, Florida, will also receive the additional volunteer scholarship. Her father, Steven, was employed by DBI Services when he was killed by a motorist who lost control of his vehicle during a work zone traffic slowdown in 2011.

Rachael Moser, District of Columbia, received a scholarship. Moser's father was employed by the Maryland State Highway Administration when he was killed after being struck by a pickup truck in 2007.

Brionna Lizotte, Missouri, received a scholarship. Her father was transporting materials for his job with the Missouri Department of Transportation when he was hit by a vehicle, resulting in his death.

Hayden Gonyer, New Hampshire, received a scholarship. His father worked for the New Hampshire Department of Transportation, where he was placing cones as part of a lane closure. He fell from the back of a pickup truck and died from his injuries.

APWA joins 86 organizations urging Senate passage of Water Resources Development Act



WASHINGTON, D.C. — In June, The American Public Works Association joined 86 organizations, including the U.S. Chamber of Commerce, the American Association of Port Authorities and the American Society of Civil Engineers, in a letter to the Senate Majority Leader, Mitch McConnell (R-KY) and Senator Minority Leader Harry Reid (D-NV) urging the

Senate to consider and pass S. 2848, the Water Resources Development Act of 2016. The Act would authorize nearly \$10 billion over 10 years for water-related infrastructure projects, as well as drinking and clean water infrastructure.

The Senate Environment and Public Works Committee passed the current WRDA bill in April, showing a commitment to the nation's critical water resources infrastructure by authorizing the Army Corps of Engineers projects and making improvements to ports, inland harbors, waterways, dams and flood control systems. The bill would also provide \$220 million in direct emergency assistance for drinking water crises in communities. ■

News releases regarding personnel changes, other non-product-related company changes, association news and awards are printed as space allows. Priority will be given to advertisers and affiliates. Releases not printed in the magazine can be found online at www.themunicipal.com. Call (800) 733-4111, ext. 2392, or email jmarlin@the-papers.com.

REMOTE LIGHTING SYSTEMS

- Portable
- Waterproof
- Safe and reliable
- No cords or cables
- Corrosion resistant
- Lithium batteries
- Hours of use

Crestar Firefighting Equipment 866-306-9066
 P.O. Box 406 info@crestarfire.com
 Smithville, Ohio 44677 www.crestarfire.com

BulletSafe
Bulletproof Vests
Level IIIA
\$299.00

Order at BulletSafe.com
 or at over 200 dealers

Sizes Small-4X
 Call 1-248-457-6877
www.BulletSafe.com

Over 7000 Items Online

SAMS★N Branick

GOVERNMENT DISCOUNTS AVAILABLE
 USE COUPON CODE **GOV10** AT CHECKOUT

www.mile-x.com

Tire Changers Band Saws Oil Filter Crushers Drill Presses Baldor Grinders OTC Tools
 Shop Presses Lift Equipment Battery Chargers Brake Lathes Wheel Balancers Pro-Link

GSA : GS-07F-9368S PH 800-837-3818 FX 419-678-2489

GOVERNMENT DISCOUNTS & FREE SHIPPING AVAILABLE ON MANY PRODUCTS!

THE POWER TO FIX EVERYTHING...ANYWHERE
 HYDRAULIC MOBILE POWER FOR SERVICE TRUCKS & WRECKERS

DC WELDER CV MIG / TIG 300 AMPS DC
 JUMP START BATTERY CHARGE 12V - 24V - 36V - 48V
 AC GENERATOR TOOLS & LIGHTING 6500 WATTS

- AC GENERATOR
- DC WELDER
- JUMP STARTER
- BATTERY CHARGER
- CV MIG / TIG

Available in 11, 15 & 21 GPM

MOBILE POWER FOR SERVICE TRUCKS & WRECKERS
 HYDRO ARC-S-6500 JSBC FOR INFO CALL (845) 469-9151 or visit us on the web: www.fabcopower.com

Fabco Power
 FAMILY OWNED FOR OVER 50 YEARS "Setting the Standard in Mobile Power"

Crowd Control Keeping You On Your Toes?

A new and exciting season is just around the corner. Get ready for game day with Yodock® Barricades available in your team's colors. Available for purchase or rental, the Trinity Highway Rentals team will work with you to develop a solution for your next special event or stadium project.

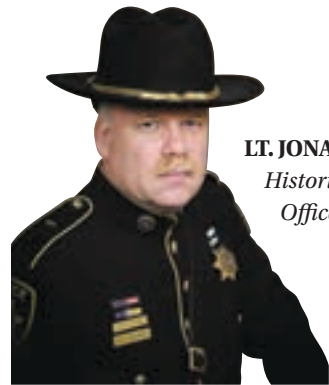
- FHWA Tested & Accepted
- Versatile & Cost Effective
- Show your true colors.

TRINITY HIGHWAY RENTALS

trinityhighwayrentals.com
888.496.3625

The Vigiles of ancient Rome

Historical roots of the public police and firefighting service



LT. JONATHAN ANDERSON | Guest columnist
Historian, Onondaga County Sheriff's Office, Syracuse, N.Y.

In today's world of public first responders, the interfaces of police and fire-rescue services are commonplace and seem inseparable. Interestingly, that commonality extends back in time to the first responders of the ancient Roman Empire – the Vigiles.

During the 27 B.C. reign of the Roman Emperor Augustus — known as Gaius Octavius, great nephew to Julius Caesar — the city of Rome grew into a sprawling metropolis. The majority of the city's residents lived in overcrowded tenement-public housing projects known as "insulae." Each insula was a massive, sometimes poorly built, timber brick building extending five to six stories in height and occupied by as many as three to four hundred people. Understandably, the problem of securing the health, safety and order of the city, in particular inside the insula complexes, was a major dilemma.

In about 27 B.C. Emperor Augustus established Rome's first fire brigade service manned by privately owned slaves: the "Triumvire Nocturni." However, this system proved ineffective as an overall public service. Hence, the responsibility for protecting the city fell upon an urban military brigade known as the "Urban Cohort." Officially part of the Roman army, this military cohort consisted of several thousand men who served as an urban firefighting and policing service.

In about 6 A.D. the first nonmilitary, public police-firefighting system was adopted: the "Vigiles Urbani," "Watchmen of the

City;" or "Cohortes Vigilum," "Cohorts of the Watchmen." Recruited from among ex-slaves and free men, this civilian paramilitary public service took the matter of protecting the health and safety of their neighborhoods into their own hands, possibly contributing to the root of the term "vigilante." By 24 A.D. Vigiles were being granted full citizenship and a cash stipend after six years of service.

Initially the Vigiles were formed as a night watch auxiliary service to supplement the Urban Cohort. As such, they assumed the dual roles of fire brigade and local urban police force. The 3,500 man force was commanded by a "Praefectus vigilum." It was divided into seven "cohorts" or 500 man units, commanded by a "Tribune." These were divided into 70-man units, or "centuries," and commanded by a "centurion."

Each cohort attached a medical support unit, or "medici," and some religious officials, or "victimarii." Each cohort operated out of jurisdictional barracks, the equivalent of modern-day police precincts and fire district stations.

As local police the Vigiles were supervised by a "Praefectus vigilum" who passed judgment upon most lawbreakers of lesser offenses. Offenders of serious offenses were turned over to the prefect of the Urban Cohort. For this service the Vigiles were armed with clubs — a possible origin of the term "night stick" — and short swords known as the "gladius" and the "pugio." The Vigiles were also protected by chain mail body armor



In about 6 A.D. the first nonmilitary, public police-firefighting system was adopted: the "Vigiles Urbani," "Watchmen of the City;" or "Cohortes Vigilum," "Cohorts of the Watchmen." (All Images provided)

known as the "Hamata." So equipped, they responded to disorders and disturbances and dealt with crowd control and traffic control matters throughout the city.

As firefighters, the Vigiles were equipped with fire axes, mattocks, crowbars, grappling hooks and artillery ballistae for firebreak demolition work. They were also equipped with a hand-operated, hosed water pump apparatus adopted from the Egyptian theater. The pump operator was dubbed a "siphonarius." The position of "aquarius" supervised the water supply, and ordinary firemen were called "milites," or "soldiers." But it was the issue of buckets for bucket-brigade firefighting work that earned them the general nickname of "Spartoli," or "little bucket fellows."

The reputation of the Vigiles as firefighters spread to other coastal cities and to the northernmost region of the empire: London, the Roman capital of the province of Britannia. Following the fire that destroyed the city in the wake of Boudicca's Iceni tribe rebellion, Vigiles were formed in London as a firefighting service until the Romans abandoned Britannia around 426 A.D.

Eventually the effectiveness of the Vigiles resulted in their assuming the full-time duties of the military Urban Cohort, and the concept of the public-civilian police/firefighting service took root. The public-civilian police and firefighting first responder services of today share a common origin in the ancient Roman Vigiles. **M**

Lt. Anderson is currently assigned as the facilities security supervisor for the county's City of Syracuse Municipal Complex. Tangent to his assigned duties, Lt. Anderson has served since 2002 as the sheriff's office historian; a position that coordinates historical initiatives with public relations activity and departmental functions.

Upcoming Editorial Calendar

September 2016

Going Green

Deadline Monday, August 1

October 2016

Parks & Recreation

Deadline Friday, September 2

November 2016

Technology

Deadline Monday, October 3



WWW.THEMUNICIPAL.COM
(866) 580-1138
Ask for Municipal Sales

Unparalleled Performance. Mission Specific. Reliable. Proven.
Professional Grade Rescue and Patrol Boats
Rigid Inflatable Boats Ranging in Size from 15-32'



RIBCRAFT
PROFESSIONAL GRADE RIBS™

www.ribcraftusa.com • 781.639.9065 • info@ribcraftusa.com

M

TOP 10

THE SAFEST CITIES IN AMERICA

How does one evaluate which are the safest cities in America? As we were reminded so starkly on June 12, no city today can boast immunity from violent crimes. Some municipalities, however, by virtue of both their own efforts and geography, become safer environments than others.

National Averages

☞: 14,249 ☞: 365.5

Average annual household income: \$53,657
National poverty rate: 15.5 percent
Unemployment rate: 6.2 percent
High school attainment: 86.9 percent
Bachelor's degree or higher: 30.1 percent



☞=total murders

☞=violent crimes per 100,000 people

Late last year 24/7 Wall St. reviewed violent crime rates in major U.S. cities as reported by the Federal Bureau of Investigation's most recent Uniform Crime Report. This year, Irvine, Calif., ranked as the safest city in the country, with a violent crime rate of 49 incidents per 100,000 people.

As 24/7 Wall St. noted, "While it is difficult to identify the root causes of violent behavior, violence is often conducted in similar contexts, and cities with especially low violent crime rates frequently share social and economic characteristics." During an interview, John Roman, senior fellow at the Urban Institute, a social policy research think tank, noted that places that experience consistent economic growth tend to be the safest places in America as unemployment as well as education play roles in the safety of a locale.

7. Gilbert, Ariz. ☞: 0 ☞: 89

About 96 percent of Gilbert adults have graduated **high school**. Median household income in the area is \$84,153.

5. Naperville, Ill. ☞: 1 ☞: 78

97.3 percent of Naperville adults are **high school graduates**. The property crime rate is less than half the national average.

4. Olathe, Kan. ☞: 0 ☞: 76

Olathe's 2014 violent crime rate declined considerably from the previous year. **Unemployment** there is only 3.6 percent.

3. Cary, N.C. ☞: 3 ☞: 63

Violent crime rate in Cary has declined ever since 2010. About 62 percent of Cary adults hold at least a **bachelor's degree**.

6. Frisco, Texas ☞: 4 ☞: 82

Average Frisco **households earn \$115,603** annually, the highest of cities reviewed. The poverty rate is just 3 percent.

9. Glendale, Calif. ☞: 0 ☞: 94

85.2 percent of Glendale adults have a high school diploma, and the **college attainment** rate is higher than average at 37.4 percent.

1. Irvine, Calif. ☞: 0 ☞: 49

67.7 percent of adults in Irvine have a **bachelor's degree**. The property crime rate is less than half the national average.

2. Murrieta, Calif. ☞: 1 ☞: 63

Crime in Murrieta has fallen in each of the past four years.

8. Temecula, Calif. ☞: 2 ☞: 92

Temecula households earn \$80,753 annually, and just **6.3 percent** of people live in poverty.

10. Edison Township, N.J. ☞: 0 ☞: 96

Though one of the safest cities, Edison Township is only about 25 miles from **Newark** — one of the nation's most dangerous.

M Advertiser Index

A

Adesa Speciality Sales	58-59
Aladtec, Incorporated	Front Cover, 12-13
Alumitank	7
Andy Mohr Ford	5
APWA	71
Astro Optics	51

B

Bigfoot Construction Equipment	4
Bonnell Industries	Back Cover
Bullet Safe	64

C

Calhoun Super Structures, Ltd.	47
Circle D Lights	46
Clearspan Fabric Structures	11

E

EBAC Industrial Products	51
Emerson Manufacturing	26

F

Fabco Power	65
Finley Fire Equipment	45
Fire Suppression Products	17
Fol-da-tank	50

G

Global Environmental Products	55
-------------------------------	----

H

Highway Equipment Company	39
Hotsy	17
Husky Portable Containment	27

I

ICOM America, Incorporated	70
Imel Motor Sales, Incorporated	34
International Code Council	2

L

Land Pride	15
Lock America	17

M

Mile-X Equipment, Incorporated	65
Monroe Truck Equipment	54

N

National Construction Rentals	42
National Recreation & Parks Association	9
New Way Trucks	35

O

Original Footwear	11
-------------------	----

P

Pro-Tainer, Incorporated	30
--------------------------	----

R

Ribcraft	67
Road Solutions, Incorporated	63

S

Stan Design	51
Superior Signal Company	43

T

Trinity Highway Products, LLC	65
-------------------------------	----

V

Visiontron Corporation	31
------------------------	----

W

Warren Power Attachments	43
Weatherboots, Incorporated	3
Wisconsin Surplus Auctions	63

This index is provided courtesy of the publisher, who assumes no liability for errors or omissions.



Voice.
Data.
License Free.

Connect with Icom



DIGITAL

Interoperability Redefined *Radio Solutions for Municipalities*

Expand connectivity within departments and across agencies with an Icom two-way radio system. Features include remote monitoring, digital functionality, private IP conversation and seamless coverage over a wide area network.

Bridge the communications gap between multiple services*:

- Police, Fire & EMT
- Hospitals
- Public Works
- School Security
- Department of Transportation

800-USA-ICOM

www.icomamerica.com/landmobile



*VE-PG3 required to connect two-plus radio sites over an IP network ©2016 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All information subject to change without notice or obligation. 20723



REGISTRATION NOW OPEN!

PWX

PUBLIC WORKS EXPO

2016

MINNEAPOLIS CONVENTION CENTER
AUGUST 28-31, 2016

GET MORE
INFORMATION AT:
www.apwa.net/PWX

Make Plans to be in
Minneapolis for Exciting
New Changes to APWA's
Annual Conference!

- New Technologies
- Exciting New Networking Opportunities
- New Education Formats & Great New Ways To Learn



COMMANDER MULTI-PURPOSE BODIES

COMMAND YOUR ROADWAYS



The unique shape of the Commander Series bodies, allows for your materials to taper towards the middle of the body for easy dispersal of materials.
Visit our website or call us to learn more about our products!



SALES. SERVICE. INSTALL.



CONTACT

Phone: (800) 851-9664
Fax: (815) 284-8815
Website: www.bonnell.com
Address: 1385 Franklin Grove Rd.
Dixon, IL 61021



ROAD DRAGS



LEAF VACUUMS



SPREADERS



PLOWS & WINGS