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POLICE AND SECURITY NEWS

The Information Source for Law Enforcement and Homeland Security

July/August 2014  
Volume 30 Issue 4

How to Get Promoted!

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## SWAT/Tactical Equipment



### ← Mayhem Tactical Exterior Carrier

The **Mayhem Tactical Exterior Carrier**, from Intersport Group, Inc., is designed to assure optimal protection, accommodating trauma plates and ballistic panels. Weighing in at only one pound, the **Mayhem Tactical Exterior Carrier** is water-resistant, with an outer shell made of 100% 500 D nylon and an inner shell made of 100% heavyweight polyester. Unlike many carriers, there is a built-in suspension system which attaches to a duty belt. The shoulder straps are fully adjustable. Full front and back MOLLE straps for accessories are located along the body's core. With quick release side closures and a back saving cummerbund support system, this carrier is easily taken on and off. A VELCRO® panel is placed on the upper back for department patches below a heavy-duty drug handle.

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### ← New Thermal Camera

The **Observer 320**, from Night Optics USA, is a 384 x 288 resolution thermal camera packed with features like a 640 x 480 OLED display and Real Time Object Tracking; a 2x digital zoom is also included for added range and visibility. There are three crosshairs (reticles) to choose from and nine different color palette options; you can toggle between fully automatic, semiautomatic, or manual brightness and contrast control, while selecting either automatic or manual calibration. The **Observer 320** comes in two models (25mm and 50mm) and runs on 110-240V AC/9V DC or four rechargeable AA batteries.

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### ← New WeaponLight with a Laser

The **SureFire® X400 Ultra WeaponLight** integrates powerful white light illumination and bright green laser aiming capabilities into one compact rail mountable package. A high performance LED generates 500 lumens of brilliant white light which is focused by a Total Internal Reflection (TIR) lens to produce a tight beam with extended reach and significant surround light for peripheral vision. The **X400 Ultra** produces tactical level light – enough to overwhelm an aggressor's dark

adapted vision – for 1.5 hours per set of batteries. The **X400 Ultra**'s five milliwatt laser sight, located below the primary light, emits a high visibility green (505 nM) beam.

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### New Glove →

The **Mayhem S.W.A.T. Police Glove**, from Intersport Group, Inc., defends against the many dangerous tasks on tactical operations. The articulated PVC knuckle protection and leather palm with rubber grip padding are designed to shield the hands. The middle finger and thumb have touch screen capabilities while the thumb also features a built-in drip cloth. The smooth and snug index finger allows for easy entry into the trigger area and a smaller gauntlet makes the bent hand position much more comfortable. All of the gloves come standard with a built-in pouch to combat chilly nights. The **Mayhem S.W.A.T. Police Glove** is perfect for the law enforcer on high-risk operations.



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### Omni-Stream™ OC Aerosol Units →

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### New Thermal Rifle Scope

Night Optics USA has introduced the **Panther Series** of high performance thermal riflescopes. The Panther 336 (336 x 256) and the Panther 640 (640 x 480) thermal riflescopes come with 2 x 50mm high-grade optics and a quick release weapon mount. They feature precise optical focus adjustment; 1x, 2x, and 4x digital zoom; 600 x 800 high resolution AMOLED display; more than four hours of continuous use on two CR1213 batteries; and a simplistic menu system.

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### New Bipod

The **PSR Atlas Bipod** is the newest model developed by B&T Industries, LLC (Accu-Shot). The **PSR** features 15 degrees +/- of preloaded PAN and CANT; five leg positions, including the 45 degree leg position pioneered by B&T; fore and aft pivot limiting bosses; nonrotational legs and strengthened leg bosses to decrease leg play.

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### New Buttstock Pad

The **Buttstock Cheek Pad™**, from DeSantis Gunhide®, is made with padded neoprene using their Nemesis® material, and is designed to prevent slipping and diminish recoil to both the neck and cheek. It is secured to the buttstock by a hook and loop system with a strap to ensure an accurate fit for all rifle stocks.

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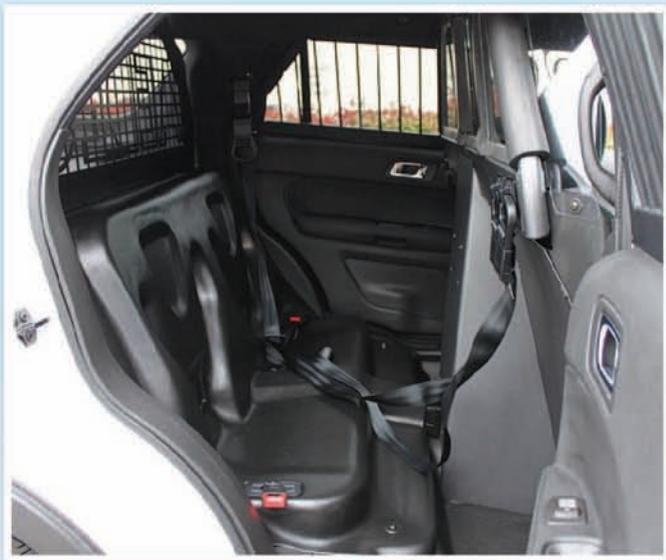
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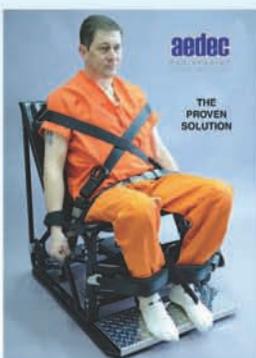
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Ramesh Nyberg

## WHY DID THE CHICKEN CROSS THE ROAD?

The answer may surprise you.

Choose one answer to the following question. A dead chicken outside your police station means:

- a) A wayward chicken was hit by a car (simple enough).
- b) You don't have to stop at KFC on the way home.
- c) It answers the age-old joke – clearly it crossed the road *to get to the police station*.
- d) Someone is trying to conjure up benevolent spirits to affect an investigation.

If you live in any place but South Florida, either a, b or c – or any combination thereof – is probably true. Down here, though, a dead *white* chicken means that someone who practices *Santeria* is trying to nudge a particular saint to work their spiritual magic in that person's favor. A black chicken is a whole other ballgame, but we'll get to that.

We live with Afro-Caribbean religions here in South Florida, mainly because we have a huge Cuban population, as well as tens of thousands of Haitians. Sprinkle in Dominicans, Hondurans, Guatemalans – well, you get the idea. We have people from all Caribbean and Latin American nations. What is *Santeria*? I'm not an expert, but I did take a four day course in the subject, put on by the medical examiner's office. Dr. Charles Wetli (long since retired) was the one who taught the class. Dr. Wetli took a keen interest in *Santeria* after seeing artifacts related to the religion showing up on homicide scenes. It was at that point Dr.

Wetli felt homicide detectives should be aware of what these artifacts mean and how they might even help solve a case.

It's not unusual at all to go into someone's home in Miami and find a small doll in a planter; a glass of water with some white candles near it; or a little oval figure called *Eleggua* just inside the door in the corner. *Eleggua* usually has cowrie shells for its eyes, nose and mouth, and establishes positive communication flowing in and out of your household.

Why am I talking about all of this? It seems that religious cults are on the rise or so I am told by a British documentary company which called to interview me about the subject. Again, I am not qualified to make expert commentary on cults and religions, but it does make sense that they have become more popular. Law enforcement should become educated about them, especially if they are like "Aleph" (formerly Aum Shinrikyo), the Japanese "religion for the elite" which conducted a sarin gas attack on Tokyo's subway system in 1995. A character named Shoko Asahara started the following, drawing members in under the ruse that it was all yoga- and meditation-related. From there, he started working his persuasive magic. And, this is the key, isn't it?

Every cult, every following and, in fact, every fraudulent act has a predator and prey. The predators are really, *really* good at persuading people to do something or believe in a system of some sort. The prey are usually emotionally vulnerable in

some way. They are in need of affection, guidance, money or self-esteem. In effect, a charismatic figure who lures people in under one pretext and then uses them to carry out something as extraordinary as a sarin gas attack on the general public is nothing more than an organized crime kingpin. The slick talker working the boiler room, fleecing people out of their life savings, is the same type of criminal. They can see their prey coming ten miles away and they know just how to work them. Once under the spell, their prey is putty in their hands. It is fraud and fraud is the most prevalent of all crimes, even without counting criminal cults. Think about it – Ted Bundy, Yahweh Ben Yahweh (Hulon Mitchell), Adolph Hitler, Charles Manson, Jim Jones, Jordan Belfort, and Bernie Madoff are essentially all the same type of criminal. They put on a masquerade which wins over their prey and then they take what they want or direct their prey to do their bidding. If you and I sat down at a happy hour, we could probably name a dozen more names and those would just be the famous ones.

I started out talking about *Santeria* and to include it in a conversation about fraud might not be fair. You see, *Santeria* is what they call "white magic." That means that it is benevolent and not used to harm or damage anyone. The dead white chicken outside the police department (I think I saw four in total over the three years I worked out of our old headquarters building) was tossed there to stave off any perceived negativity coming from our office to the chicken tosser. They weren't trying to cast an evil spell. There's a different belief system for that and it's called *palo mayombe*. First, here's a little *Santeria* 101.

Once upon a time, a large number of slaves were brought to the Caribbean from the Yoruban-based tribes in western Africa. Their Spanish masters were Catholic and they were forced to learn and practice Catholicism which included praying to saints like St. Barbara, St. Joseph, St. Lazarus, etc. Secretly, they assigned their own African deities to the saints and they kept the saints' statues up on the shelves as ordered, but, when out of earshot of their masters, they used the African names. Each saint, then, took on the character of the African gods – each had a special power or magic and each required particular propitiations (sacrifices or offerings) which were color-coded. White means one thing, red means another, and so on. And, there you go, a no huddle drill on *Santeria*.

The baddies in this culture, however, wanted to hurt people and conjure up evil spirits to do their enemies harm, so *palo mayombe* came about and they had darker, angrier spirits and different meanings for colors, metals and other materials. It wasn't uncommon in Miami to be on a search warrant and find a narcotics detective's business card at the bottom of an iron pot containing black metal arrows or knives. This could mean that the narco wanted protection, but it could also mean that they wanted something bad to happen to the detective.

In my travels over the last ten to 15 years, I noticed that the formerly "Caucasian" areas of the country are now gradually being blended with an influx of Hispanic and Caribbean people. There is no question that the Mexicans now flooding our borders will branch out far beyond Texas, California and Arizona. It already happened long ago with the Cubans who fled Castro in the early '60s. South Florida cops aren't the only ones who have encountered Santeria. There are law enforcement officers in Union City and North Bergen, New Jersey, who are nodding and smiling in recognition as they read this.

So, the point is that it behooves everyone in law enforcement to get as informed as possible in all cults which have shown up in their communities, especially the ones which practice bad juju.

Maybe the dead chicken outside your police department was just trying to get to the other side. But, if it's a dead black chicken, in this day and age, you might want to take a closer look. [PSN](#)

*About the Author: Ramesh Nyberg retired from law enforcement in November 2006. He spent 27 years in police work in South Florida, 22 of those years in homicide as an investigator. He has taught homicide investigations and interview/interrogations at the local police*



*academy. He now teaches criminal justice classes at a high school in the Miami area. His students frequently read the copies of Police and Security*

*News he brings to the classroom. Mr. Nyberg enjoys hearing from readers and he may be contacted at [ramesh.nyberg@gmail.com](mailto:ramesh.nyberg@gmail.com).*

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Michael Carpenter

## SEVEN TIPS FOR GETTING PROMOTED

Ben Franklin has something to say about your career.

**B**en knew a little bit about what it took to create a successful career for himself and you might be surprised to find out that his advice is as sound today as it was 250 years ago. *“By failing to prepare, you are preparing to fail.”*

The key to getting promoted in any agency is preparation. Not the “Oh, the test is next Saturday, so I guess I should study” type of preparation, but a career long plan of commitment.

Command level officers look for prepared, motivated and competent people to promote who have a proven track record and who can keep the department moving forward in a professional manner.

To help you achieve promotional success in your agency, here are a few tips.

### 1. Start Early

Some officers don't appreciate the fact that you start laying the groundwork for your success at the police academy. What you do – or don't do – can affect your career for many years.

First, establish yourself at the academy as a serious, professional and upwardly mobile candidate. Study hard, ask questions, go above and beyond whenever you can and do your absolute best. A solid foundation you establish at the academy is necessary to start building a long career.

Second, realize that your decisions at the academy can affect your future in another way. Your bosses have decided to invest a lot of money in

you – your salary while attending the academy; registration fees which they pay to the academy; your travel expenses while attending; etc. They will monitor your progress and decide what kind of a future employee you will be based on what you do at the academy. For example, if there are 83 recruits attending the academy and you finish 82nd in class average, your bosses will NOT be pleased. However, if you finish at the top of your class academically, or if you are chosen for a leadership award or win the “most physically fit award,” your bosses will take note. What you do – or don't do – in the academy, is the first entry in your personnel file. You want to start your career with the bosses saying, “Yeah, that's the kid who finished first at the academy,” not “Yeah, that's the kid we wasted our money on at the academy!”

### 2. Learn from Others

Most of us realize that we aren't good at everything. Career-minded officers are always willing to learn; are always willing to listen; and are always willing to build on what they don't know.

For example, one of your fellow officers makes a solid arrest. There will be the usual backslapping and “good arrest” comments from the shift, but, then, very quickly, everyone moves on. However, after everything settles down, you should find time to talk to that officer about the case and get specific details on how he/she did it. Find out exactly

how he/she worked the informant or followed up on the leads or got the “lucky break” (which often isn't lucky at all; it's just the result of good police work). These specific insights will help you to learn how best to do your job better when it is your turn.

Or, if an officer makes an arrest for first-degree burglary, take the time to look up the elements of the offense and the case law relating to that offense, so that you will know how to professionally evaluate and execute an arrest on a similar case of your own in the future. Additionally, go to court – before you HAVE to – and watch how officers testify; watch how prosecutors present the case to the jury; and watch how defense attorneys challenge another officer's testimony. You will be better prepared when your time comes.

### 3. Avoid Problems

When police officers around you make mistakes, learn from their mistakes. Some of the career threatening (or career ending) problems which officers face could be avoided by a better understanding of the law or knowing department policies (instead of guessing) or making the “right” decision at the right time.

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For example, soon after you were hired, some supervisor or someone from human resources probably gave you a 400 page policy manual and said something like, "Here...these are the rules you need to know." Some officers put that three-ring binder in their locker and haven't opened it since! But, if you want to avoid career threatening problems, I suggest that you take the policies which you use the most (and can end your career the quickest) and make a point of thoroughly understanding ALL aspects of them (i.e.; use of force, high-speed pursuit, arrest, sexual harassment, search and seizure, etc.). Having to remember everything in a 400 page policy manual is not realistic, but thoroughly understanding the "top ten" policies which could get you in serious trouble quickly should be your goal. That way, when "it" hits the fan, you will know exactly what to do and how to do it!

#### 4. Prepare, Prepare, Prepare

If you receive a new policy on "handling hazardous material spills," read it; learn from it; update your policy manual; and, THEN, make a copy of it and put it in your "promotions" file. New directives are often the subject of promotional exam questions or oral interview questions.

Look at recent, important and/or controversial operations or personnel issues which may have occurred in your agency, or in a neighboring agency, and try to anticipate promotional questions

which could be asked about your understanding and your decision about that issue.

Spend some of your own money (trust me, it'll be worth it) and join national or statewide associations which will keep you current with what's going on beyond your agency; subscribe to several monthly journals or periodicals and read what other professionals are doing in your field; attend training seminars which will enhance your job knowledge; and, this one is free, regularly check Web sites which will keep you up-to-date with current events in your field.

In short, know what's going on or you will be left behind.

#### 5. Make Your Intentions Known

If you want to be considered as a serious candidate for promotions, let it be known that you are willing to accept the responsibility of a promotion. Talk to successful people in your organization. Ask for their advice, find out what they did that helped them with their success, look for their suggestions as to what you might do to improve your career and let them know that you are serious about having a successful career in the agency.

In some cases, you may decide to seek the counsel of those successful individuals in your organization who can help you succeed. It's not tough. It may be as simple as, "Captain, I'd like to go up the ranks in this organization. Can you help direct me?"

Of course, realize that some you seek out will tell you, "You're doing fine – just keep doing what you're doing." Those people are not interested in helping you or may choose not to be honest with you. A few whom you seek out may be honest with you and point out some weaknesses in your profile which you may want to work on. If this happens, appreciate the often uncomfortable position in which you put that person; appreciate their honesty; and, then, by all means, follow up on their advice.

Sometimes, if you have taken steps to impress others in your agency, someone (a mentor) will find you and help you find your path to success. That is generally because you have shown them your potential for success through your work and the actions previously described.

#### 6. Get the Resources You Need

Often, promotional announcements are posted 45 days or 60 days before the actual test. You will make a serious mistake if you wait until the test announcement is posted to start preparing. For example, some promotional test announcements list the titles of books from where test questions might be taken. Successful candidates should try to get a copy of the last promotional test announcement and anticipate that probably the same books would be listed on the next test announcement. Then, the successful candidate should spend some of his/her own

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money and buy those books and begin studying – not 45 days before the test, but six months, or more, before the test.

With promotions worth thousands of dollars per year and extending into retirement, investing a couple of hundred dollars to outpace your competition is an investment in your future, as well as your family's future.

### 7. Learn the Rules

So many candidates fail to learn the rules for getting promoted, then wonder why they didn't get promoted. Almost every promotional test will list the different criteria used to determine your score and the weight each criteria is given. For example, the written test might be worth 45%, oral interview worth 30%, performance evaluations worth 15%, education or experience worth 10%, etc.

Of course, you want to study for the written part of the test, but that will only be a part of your final score. What else counts and what are you doing to prepare for the other, much larger, portion of your test?

For example, oral boards are the downfall of too many officers. You know that you will no doubt face an oral board or an assessment center. You can do a LOT of preparation for either of these two certainties; yet, too many officers don't. Officers, supervisors or managers who have great potential and could probably do a very good job at

the next level never get the chance because they do not work on what is often a weakness for many of us. Here are two quick tips to help you on your next oral board. First, join Toastmasters International – I've mentioned this before in a previous column, yet I wonder how many of you have taken advantage of the great resource – and, second, if you have made your intentions known to your bosses about your own career (see #5), then, perhaps, you could offer to sit on an oral board for the next recruit hiring or the next sergeants' promotion. You will learn a lot by sitting on the other side of the oral board desk!

If you know that your performance evaluations are going to play a role in your career, then I suggest that, every day, you deliver 110% to your job, starting at the academy (see #1), and you will prove to your bosses that you have a long-term commitment to your career and to the agency, rather than the "Oh, the test is next Saturday" type of commitment.

We are not all destined to be the chief of a major police department or a county sheriff or the superintendent of a state police agency, but that's okay.

The question you need to ask (at any rank) is, "Are you doing the best job you can in your current position?" If you can answer, "Yes," to that question, then your performance speaks for itself.

Your best chance for getting promoted is to be a professional at every rank you hold, thoroughly prepare for the next rank and always do the best you can. That bit of advice, and your personal preparation, will serve you well throughout your career – wherever it may take you. 



*About the Author: Mike Carpenter has been on the police side of criminal justice for more than 25 years. He started out as a city cop and then went to a state police agency (trooper, detective and patrol sergeant). After that, he worked for the New York State Police Division of Criminal Justice as a police training specialist.*

*Currently, he teaches criminal justice courses at a college in upstate New York. He has two master's degrees; has been a certified police trainer for more than 20 years; has written numerous articles; and operates a police management consulting business ([www.policemanagement.com](http://www.policemanagement.com)).*

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# Product Highlight

## Police Apparel & Accessories

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Stop fumbling with the flap on your outdated duty gear. **StreetForce™ Rapid Deployment Gear** features spring-loaded flaps which pop up and stay open to get out of your way; raised Sure-Grip finger tabs for faster indexing; a snag-free interior; and extra deep side cutouts for a secure grip. These patented features give you faster, easier, and safer deployment of your critical gear. **StreetForce** is available for OC, handcuffs, magazines, batons, and more.

Circle 4024 for More Information



### DESANTIS GUNHIDE®

The **Quick Safe™** is a Level III concealment holster. This holster features twin Redi-Lok™s which can be lightning fast. The **Quick Safe™** is constructed from heavy Kydex® sheet. The other parts are injection molded from a superstrong, glass reinforced polymer making it nearly indestructible. Its ambidextrous design is adjustable for both angle (up to 30 degrees) and height. This holster performs especially well for women in its lowest position. The **Quick Safe™** will accommodate belts up to 1 3/4" wide. An optional paddle mount is available.

Circle 4025 for More Information



### INTERSPORT GROUP, INC.

The **Mayhem Tactical BDU Pant** provides numerous advantages to give law enforcement the tactical advantage. Made of poly/cotton ripstop fabric with reinforced knees and seat, the **pants'** multistitch system and heavy-duty thread provide durability over time. The large cargo pockets have an inconspicuous removable pocket system with the option of a gun holster or multitool pocket. The expandable waistband provides superior comfort for quick movement. Blousing string keepers make sure there are no more tails. The **Mayhem Tactical BDU Pant** is the go to pant for officers on duty.

Circle 4026 for More Information

### ORIGINAL S.W.A.T.®

The **Force Series** is tactically engineered to deliver new age performance and comfort focused boots to the uniform market at the best possible value. The collection includes the Force 8" Waterproof and the Force 8" Side-Zip. Each boot is equipped with the solid new Force slip-resistant outsole; a steel shank for support; a leather/1000 denier nylon upper; a Texon stability platform for lateral support and torsional rigidity; and a custom molded thermoplastic heel counter and toe box for instant comfort.

Circle 4027 for More Information



### DESANTIS GUNHIDE®

The **Prowler™** is the next generation of the Intruder® style holsters made with the autolocking Redi-Lok™ system, making it a Level II self-locking holster. The **Prowler™** can be used as a tuckable IWB holster, as well as an OWB holster. It features the Tuckable 360® C-Clip, making it both tuckable and adjustable for cant and height. Each **Prowler™** is molded with genuine Kydex® sheet to exacting specifications.

Circle 4028 for More Information



### TRU-SPEC®

The men's **24-7 Series® Eclipse Tactical Pants** have a casual jean style design with a brass button and rivets on the front and back. They feature eight pockets, including deep front pockets with two hidden utility pockets inside as well as other hidden pockets; articulated knees; a gusseted crotch; and are available in quick drying, moisture wicking 100% nylon or 65/35 Teflon® coated polyester cotton ripstop.

Circle 4029 for More Information



### INTERSPORT GROUP, INC.

The **Mayhem Tactical Shirt** was engineered for tactical use by law enforcement for any call of duty. Comprised of poly/cotton ripstop raglan sleeves and a moisture wicking body, the **Tactical Shirt** is practical as a base layer. Each arm has removable fabric panels for easy patch stitching and built-in penholders. There is also a hidden pocket on the left arm. The half-zip collar and adjustable VELCRO® sleeve closures provide a snug and comfortable fit. The **Mayhem Tactical Shirt** is perfect for effortless flexibility and comfort in tactical environments.

Circle 4030 for More Information



### N8² TACTICAL INC.

The company has announced the addition of a **holster for the GLOCK® 42** to their Professional Series of concealed carry holsters. It combines the slim line compact GLOCK – the smallest ever made – with the comfortable concealment of N8² Tactical's Professional Series which includes the patented positive retention Twist Release System, for the ultimate in comfort and confidence.

Circle 4031 for More Information



**NEWS**



## What Does Your Vehicle Say About You?

Search and Rescue Ohio, formerly Rapid Assistance to Community Emergencies (RACE), created a graphic which asks, "Are you giving free information to criminals?" The image was shared on Facebook more than 30,000 times and led to several news inquiries.

Consider the popular stick figure families often seen in rear vehicle windows. A figure which shows dad or mom in the military may let people know he, or she, may be away. A stick figure of a boy with a football may let people know that they can find Johnny at football practice. A parking pass may reveal where you live or work or go to school.

Search and Rescue Ohio is an all volunteer, nonprofit search and rescue team based in Central Ohio. For more information, visit [www.OhioSAR.com](http://www.OhioSAR.com).

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# Tactical Training Tips & Tools



Walt Rauch

## THE SIG SAUER® MODEL P320™ FULL-SIZE NITRON®

### An Excellent Pistol for Both Duty and Personal Defense

The P320 is a striker-fired polymer and steel pistol designed to fulfill the concept of offering a reliable, hand fitting self-defense and duty side-arm. In addition, an effort was made to create a “one gun fits (almost) all” pistol, with a minimum of controls which are simple to use. The package was developed to be attractive to agencies which see value in having its personnel train with only one gun and do so in the least amount of time and, while doing all this, make it as safe to carry and

use as is practical and possible. These are long-standing goals of any number of firearms companies, of course. To achieve all of them – while doing so at a reasonable cost – is another matter entirely. However, I can report that the new SIG SAUER P320 appears to fit these requirements quite well.

#### Two Versions

As of this writing, there are two versions of the P320 – the Full-Size Nitron and the Carry Nitron.



*SIG SAUER® SIGLITE® night sights, diagonal grasping grooves front and rear and wide ejection port*

Both are offered in 9x19mm, .40 S&W and .357 SIG calibers, with a .45 ACP version forecasted for later this year. The Full-Size Nitron in 9x19mm is reviewed here.

The P320 consists of a slide, frame assembly and grip module. The heart of the arm is the frame assembly which houses the operating system and is, technically, the firearm; as such, it is serial numbered. The number is visible through a slot in the side of the grip module.

While the slide, at first, appears to be the familiar SIG SAUER shape, with rectangular rounded corners and seven front and rear diagonal grasping grooves, there is a change. In addition to the foregoing, on the sides of the slide are two flats, with the upper one tapering inward toward the rounded top of the slide. This tapering is also angled and at the muzzle end starts wide, but then diagonally decreases in width until it terminates at the rear of the slide. I see this as an aid to drawing and reholstering since, with this slight inward taper, the metal to holster contact lessens.

Portions of the interior of the slide are ribbed and the forward tip of the cartridge pickup rail is rounded which decreases the chance of an otherwise sharp edged rail striking the primer of a live round when clearing it. This inadvertent strike is most possible when clearing a misfed live round.

#### Sights

SIGLITE® night sights, which are standard, are dovetailed into the slide. Horizontal sight corrections are done by moving either the front or rear sight in the dovetail slot. Vertical corrections are done by changing out either sight with one of a differing height. SIG offers six front and three rear sights. They are numbered and increase numerically in height, starting with “1.” The increase in number corresponds to an increase in sight height which then raises the bullet strike.

The striker, part of the striker assembly, is partially tensioned when the slide is cycled. Any repair or change to this unitized part means replacing the entire striker assembly.

The barrel locks up in the wide ejection port and a stubby, spring powered ejector is located at

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## Felonious Deaths Decrease 44 Percent

Preliminary statistics released by the FBI show that 27 law enforcement officers were feloniously killed in the line of duty in 2013. That's a decrease of more than 44% compared to the 49 officers killed in 2012.

By circumstance, seven officers were killed as a result of ambushes (four during unprovoked attacks and three due to entrapment/premeditated situations). Five officers died from injuries inflicted as a result of answering disturbance calls (three of which were domestic disturbances) and five officers were engaged in tactical situations. Three officers sustained fatal injuries while they were investigating suspicious persons or circumstances; three were conducting traffic pursuits or stops; and three officers were responding to robberies in progress or pursuing robbery suspects. One officer was killed as a result of an investigative activity.

Nineteen of the slain officers were confirmed to be wearing body armor at the times of the incidents. An additional 49 officers were accidentally killed in the line of duty in 2013. This total represents one officer more than the 48 officers who were accidentally killed in 2012.

Final statistics and complete details will be available in the Uniform Crime Reporting Program's publication, *Law Enforcement Officers Killed and Assaulted, 2013*, which will be published on the FBI's Web site ([www.fbi.gov](http://www.fbi.gov)) in the fall.



*The SIG SAUER® STL-900 tactical light and laser is a perfect match for the Picatinny 1913 rail.*

the right center of the port. A dual recoil spring on a full-length polymer guide rod is held captive by end caps. Yet another nice touch here is that the front retention cap is rectangular in shape with its short sides slightly rounded, while the rear end cap is fully round. This combination makes installing it correctly much less prone to error. Also, to make doing so easier, the lower inner part of the front part of the slide is notched to minimize the amount of tilting needed to remove or install the spring assembly and do so with minimal spring compression.



*After the takedown lever is removed, the frame chassis can be removed.*

### Additional Features

The slide moves on four short rails, with two forward and two rearward. The rails are part of the frame assembly. The assembly is held in the grip module by the left side mounted takedown

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*It is your butt out there. You must prepare yourself. You are the only person that you can depend on.*

the side of the catch which captures the magazine catch stop, then remove and reverse the catch.

The metal body magazine has a removable polymer base plate and polymer follower; two magazines are supplied. The base plate is slightly enlarged on its sides. The magazine body has three witness holes in its right side and here, in caliber 9x19mm, they are numbered 5, 10 and 17. For .357 SIG and .40 S&W, the magazine holds 14 rounds for use in either the Full-Size or Carry pistols.

lever which must be removed to free the frame assembly from the grip module. I had to do some fiddling with it to remove it. After the takedown lever has been removed, push the frame assembly slightly forward and lift to free it from the grip module. The slide stop is ambidextrous and is placed on the frame in the rear.

The magazine catch (located at the bottom rear of the trigger guard) is reversible. To do this, you need a straightened paper clip. Paraphrasing the owner's manual, insert a straight part of a clip into

The grip module has fine pebbling on the frontstrap, back strap and the side gripping areas. There is a provision to attach a lanyard loop at the bottom rear of the grip. The module is dished out on both sides behind the trigger. The area above the magazine base pad is relieved to aid in removing a stuck magazine. The well shaped frame has a nice, high grip tang for high hand placement. The large trigger guard is squared and grooved across its face. The dustcover wears a 1913 Picatinny rail on which the SIG SAUER light easily fits.

### Five Part Safety

The P320 features a unique five part safety system – standard on all models. These parts include a Striker Safety, a Disconnect Safety and a 3-point Take Down Safety System. What are the



*The P320™ easily disassembles into four parts.*

three points? Disassembly cannot be done unless the magazine is removed; the slide must be locked to the rear; and the trigger does not have to be pulled (which releases its striker) for disassembly. And, no tools are needed for any of this, either.

There are three grip modules – standard, compact and subcompact – available for this pistol and the frames are identical to those for the P250®, as are the P320 barrels which are also interchangeable between the two models. Prices for grip modules and barrels are listed in the Technical Specifications at the end of this article and under “Accessories for the P250” on SIG SAUER’s Web site. On this sample, the frame is marked *FULL MEDIUM* on the right side of the dustcover.

The grip modules vary in circumference based

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on SIG's survey (done for the P250) of 40,000 hands, the results of which lead the company to believe the three frames will fit 80-90% of hand sizes.

The trigger pull on this sample is good and lets off at 8.5 pounds, with a quick reset. One of my associates said of the trigger that it feels "spongy," but, when it breaks, it doesn't move (meaning there's little trigger overtravel). I think that, for a striker-fired pistol, this is close to, or right at the top of, factory supplied trigger pulls.

**Range Results**

Shooting seated at 17 yards, I got five shot groups which ranged from 1.5" to 1.75" using 124-grain Black Hills (remanufactured) JRN (1.75"), 115-grain Winchester® (White Box) JRN (1.75") and 147-grain COR@BON Performance Match JFP (1.50") ammo. The groups might have been tighter if I had blackened the rear sight, as the white in the rear sight tends to draw my focus to it, away from the front sight, but I wanted results from the gun as it ships. I noticed (as I had when I shot the P250) that felt recoil from the P320 was also soft. Truth be told, I find that, if a SIG pistol doesn't shoot well, it's most likely the shooter, not the gun or the ammo causing the problem.

I tried out the supplied polymer paddle holster which is a strong side, outside the belt rig which is set up to give a slight muzzle to the rear carry. The paddle is marked "P250 Full Size" and

"P250 Compact." Gun retention is provided by an internal stud which snaps over a trigger guard and an Allen head tension screw in the holster body. The holster provides casual, but not deep, concealment for my body shape, but works well for some of my shooting buddies.

**Bottom Line**

To the good, a new P320 owner is ready to go and only lacks some ammo. The pistol is easy to handle, with good balance and points well. Magazine changes were simple and moved smoothly for insertion and removal. The extension on the base



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## SIG SAUER® MODEL P320™ FULL-SIZE NITRON®

### Technical Specifications

**Action type:** Striker-fired

**Caliber:** 9x19mm (also available in .357 SIG and .40 S&W)

**Magazine:** Steel with a removable polymer base plate; two are supplied

**Capacity:** 17 rounds (9x19mm); 14 rounds (.357 SIG, .40 S&W)

**Barrel length:** 4.7"

**Sight radius:** 6.6"

**Overall length:** 8.0"

**Height:** 5.5"

**Width:** 1.4" (medium grip module)

**Weight with magazine:** 29.4 ounces

**Material:** Stainless and blued steel, polymer

**Grip material and size:** Polymer, medium (small and large also available)

**Finish:** Nitron matte black slide, black polymer grip

**Frame assembly:** Stainless steel

**Sights:** SIGLITE® night sights; ramped front, square notch rear



**Trigger:** Double-action striker

**Trigger pull:** 5.5 to 7.5 pounds

**Accessory rail:** M1913 Picatinny

**Supplied:** Spare magazine, plus black polymer, right-handed paddle holster (fits P320/P250®)

**Separate purchase:** Small-, medium- and large-size frames with installed magazine catch, \$46.00 each; barrels in 9x19mm, .357 SIG and .40 S&W, \$199 each.

**MSRP:** \$713.00

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## CHRONOGRAPH AND ACCURACY RESULTS

The following data was obtained using a Pro Chrony® Shooting Master chronograph at 300 feet above sea level with a temperature of 65 degrees. The pistol used was the SIG SAUER® P320™ Nitron® (Full-Size), 9x19mm caliber with a 4.7" barrel. The five shot group averages were fired at 17 yards; shooting supported from a shooting bench.

Ammunition	Group Size	Velocity	Standard Deviation
Black Hills 124-gr. (remanufactured) JRN	1.75"	1040 fps	22
COR®BON Performance Match 147-gr. JFP	1.50"	775 fps	18
Winchester® 115-gr. (White Box) FMJ	1.75"	1099 fps	25



*Two five shot groups shot at 17 yards measured 1.5" and 1.75", respectively.*

plates, which fit into matching cutouts on the frame, should make removing a stubborn magazine much less of a chore than it can sometimes be.

Given the simplicity of operation and disassembly (save for the aforementioned fiddling), the P320 should be an easy handgun with which to teach the how to of use and maintenance, as there's little to remember to do and not do. As I mentioned, the pistol points well for me and for my associates. Coincidentally, our hand sizes differ, but it works for all of us. End users will be well served with the SIG SAUER P320.

Visit the SIG SAUER Web site at  
[www.sigsauer.com](http://www.sigsauer.com)

Circle 4043 for More Information



*About the Author: Upon receiving his BS degree from Carnegie Tech and completing service as a Special Agent in U.S. Army Intelligence, Walt Rauch was a Special Agent with the U.S. Secret Service and an Investigator with the Warrant Unit, First Judicial District, PA.*

*Rauch is also a writer and lecturer in the fire-arms field. He is published regularly in national and international publications.*

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# Body Armor Update: 2014



**The 21st Annual Report on the Latest Advances  
in Ballistic Armor Technology and Design**

Rebecca Kanable

Whether uniforms of the future will look like that of Iron Man or Spider-Man remains to be seen. The U.S. Special Operations Command (SOCOM) is using unprecedented outreach and collaboration to develop what some are calling a modern day Iron Man suit, reports the American Forces Press Service. One of the goals of the Tactical Assault Light Operator Suit (TALOS) is to provide lighter, more efficient full-body ballistics protection. The collaborative effort includes 56 corporations, 16 government agencies, 13 universities and ten national laboratories.

Scientists at the Massachusetts Institute of Technology, for example, have been working on liquid body armor which transforms from liquid to solid in milliseconds when a magnetic field or electrical current is applied.



*A new Iron Man-like protective suit is in development by SOCOM.*

SOCOM's goal is to have a TALOS prototype within the next year and to have the suit ready for full field-testing within five years. According to the American Forces Press Service, that timetable is revolutionary for the military research, development and acquisition world, even for rapid equipping programs.

Although the TALOS is initially intended for special operators involved in high risk missions, it has implications for the conventional forces – and, possibly, law enforcement.

Iron Man isn't your hero; how about Spider-Man? *Chemical & Engineering News*, in its March 3, 2014, issue, talks about the realities of Spider-Man: "There is a scene in the film, *Spider-Man 2*, where Spider-Man prevents a train full of people from crashing by holding it back with about ten sets of spider silk ropes – each less than half an inch thick. It turns out the scene isn't just fantasy."

Spider silks stronger than Kevlar® are being researched and readied for commercial production.

On the Utah State University campus, ground was broken in October 2013 for a Bioproducts Scale-Up Facility, as a first step in producing large quantities of spider silk protein. To commercialize

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## NIJ Standard 0101.06 compliant

### NIJ level IIIA specs

MODEL	CERTIFICATION SIZE (C1-C5)	WEIGHT	THICKNESS	V50 .357 SIG (fps)	V50 44 MAG (fps)
AXIII A	C1-C5	.87psf	.20"	1870	1745
AXIII AF FEMALE	C1-C5	.87psf	.20"	1884	1744

### NIJ level II specs

MODEL	CERTIFICATION SIZE (C1-C5)	WEIGHT	THICKNESS	V50 9 MM (fps)	V50 .357 MAG (fps)
AXII	C1-C5	.63psf	.18"	1794	1761
AXIIF FEMALE	C1-C5	.63psf	.17"	1783	1734

Learn more about the unique science behind the Alpha Elite Series at [eliteproven.com](http://eliteproven.com)    



vest sales please call **800.413.5155** or to find a dealer visit [pointblankenterprises.com](http://pointblankenterprises.com)



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Dyneema® and Dyneema® Force Multiplier Technology are trademarks of DSM.



*Alpha Elite™ is the world's first body armor to be designed around the Dyneema® Force Multiplier Technology by DSM.*

products which emerge from scientific investigations of synthetic spider silk proteins, Araknitek, Inc., a Utah State University "spin-out" company, was created.

While researchers continue to look for the next generation of ballistic materials, the future will not be tomorrow. Especially for law enforcement, which often sees technological advances after they have been tried and tested by the military, it will take some time before these innovations are seen in the law enforcement market.

In the meantime, body armor manufacturers work to make products which weigh less, increase performance and offer greater flexibility.



*The new Alpha Elite™ Level II and Level IIIA represent the lightest and highest performing NIJ 101.06 body armor currently available.*

**Point Blank's Revolutionary Level II and Level IIIA Alpha Elite™ Series**

The Alpha Elite Series was created when Point Blank Enterprises Inc. engineers began searching for a ballistic material which would meet the rigorous demands of U.S. Special Operations Forces. Late last year, Point Blank unveiled the Alpha Elite Series NIJ Level II and IIIA tactical and concealable body armor systems.

These are the first body armor products to be designed around the revolutionary Dyneema® Force Multiplier Technology by DSM. Dyneema Force Multiplier Technology ballistic material was designed to defeat high velocity handgun rounds and fragmentation with minimal backface deformation.

"During independent testing, the Alpha Elite AXIII ballistic package exceeded all performance requirements, including tests for maximum velocity approaching or exceeding 2,000 fps," said Michael Foreman, EVP International Business Development, Federal Sales and Marketing, at Point Blank Enterprises. "Test lab personnel stated that they had never seen this level of performance in a package of this weight and thinness during any other testing of soft armor ballistic solutions."

Independent testing confirmed that the Alpha Elite Level II and Level IIIA offer the lightest and highest performing NIJ 0101.06 body armor to date. The Alpha Elite Level II product has proven to be 20 percent lighter and six percent higher performing than the best NIJ .06 Level II models previously on the market.

The NIJ Level IIIA performance is now available with comfort levels more typical of Level II body armor. Compared to Point Blank's previous lightest Level IIIA vest, the Alpha Elite Series is 12 percent lighter.

Foreman, a 40-year law enforcement veteran whose been in the body armor industry for ten years, noted the Alpha Elite was developed keeping in mind the price point. "I think we have an

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# BAKER BALLISTICS™

**Baker Batshield® Level IIIA and the MRAPS Levels III & IV rifle composite ballistic shields - the smart choice for modern law enforcement agencies that strive to end active shooter spree killing as quickly as possible!**

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*Alpha-1 tactical armor systems are available for both male and female officers.*

obligation to find solutions at a reasonable price," he said. For a nominal difference in price, chiefs and sheriffs have been opting for the higher level of protection.

**U.S. Armor Enforcer 6000:  
A Hybrid for NIJ .06 Comfort**

The U.S. Armor Enforcer 6000 is made using Core Matrix® technology with ultrahigh molecular weight polyethylene ballistic fibers from Honeywell®, Gold Shield®, SpectraShield® and DuPont™ Kevlar technologies. The ballistic fibers are combined in a thin, lightweight, low stitch ballistic package certified in Threat Level IIIA. U.S. Armor says the Enforcer 6000 is the ultimate hybrid design for NIJ 0101.06 comfort.

A Heat-Removing Outlast® Outer Carrier Option provides a cooling effect when the wearer is hot and a heating effect when cold. This is the same material used by NASA in their astronaut space suits to manage body temperatures.



*New LED ballistic shield lighting is available from Baker Ballistics.*

**Baker Ballistics' Wide-angle LED Lighting for Protective Shields**

Ballistic shield operators have long recognized the visual problems inherent with using strong, focused flashlight beams in extremely

**Phoenix Armor™ Is Patent-pending**

Partnering with Murray Neal, Phoenix Armor provides the infrastructure to support the development, design and manufacturing armor technologies originally manufactured by Pinnacle Armor®.

Neal has developed the next generation of a patent-pending flexible, rifle defeating body armor solution which is lighter, harder and tougher, superseding the past three generations of the Dragon Skin® technology. Phoenix Armor is the name of this new patent-pending technology which will be available soon in both tactical and concealed body armor styles.

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dark environments. Scattered light and bounced back strong light greatly deteriorate a user's night vision resulting in everything outside of the aimed light being invisible. The shield user needs to pan left and right during searches and room clearing operations when using a strong focused beam. When panned to one side of the room, it is impossible to notice movement outside the lighted area.

The lightweight and compact Baker Ballistics shield lighting is comprised of a brilliant wide-angle lighting array mounted to the low central region of the shield, drawing potential gunfire to the central mass area of the shield, thus creating the widest possible radius of safety.

The LED lighting is not bounced back, allowing the shield user the ability to clearly see movement across 160 degrees of frontal coverage without needing to pan left and right.

Weighing only 13 ounces with four CR123 lithium batteries, the Baker Ballistics wide-angle LED is available as an option on all new models of Baker Batshield®, MRAPS or MRAPS-IV ballistic shields.

The lighting system includes a remote on/off switch accessed by the support hand; a low-battery indicator light; and the user's choice of three distinct light output intensity levels: high, medium or low.

#### **Second Chance® All New Summit™ Body Armor**

Second Chance Body Armor announced this year the release of the next generation Summit

family of body armor solutions. Bringing together new innovations from well-known industry providers such as Teijin, Barrday, TexTech Industries, Honeywell and United States Ballistic Engineering (USBE), the new Summit Series was built from the ground up.

Key attributes of the all new Summit Series armor include that it is hybrid engineered utilizing fifth generation Core Matrix Technology from TexTech, new fiber from Teijin and next generation Spectra materials from Honeywell; it has innovative stitch architecture for increased flexibility; and it is available in concealable and tactical configurations.

The Summit line is available in threat protection Levels II and IIIA.

#### **Armor Express Revolution™ Plus**

The Revolution Plus concealable soft body armor carrier from Armor Express is an internal concealable garment worn under a uniform. It supports concealable soft armor panels which fit tight and provide a low profile and low signature protection when worn over the body. The vest has adjustable and removable elastic shoulder straps and the (patented) Easy Grip Side Straps™ which allow the user to attach, adjust and detach the side straps more easily and efficiently. The interior surface has SCENT-LOK® fabric to absorb moisture, reduce heat, reduce fungal growth and absorb foul odors, as well as a microfiber wear strip to prevent damage to the vest from



#### **CopGear's Spartan system is a low cost modular armor plate carrier.**

excessive abrasion against a belt buckle.

#### **CopGear's Modular System**

CopGear has developed a modular system for law enforcement use branded under the Spartan Defense logo. It's a flexible system designed to be kept in the trunk of the vehicle for quick use. The system includes two steel plates, a carrier and a bag for the cost of what some companies are charging for a single ceramic plate.

The plate carrier is made of 1000 denier ballistic nylon. It features a quick release system at the shoulders, dual adjustable sides, a man down strap, a MOLLE front panel and front and rear ID blanks.

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The carrier holds 10" x 12" plates and is available in black and red with custom colors upon request.

The eight pound, 1/4" thick military-grade steel rifle plates are designed for active shooter situations and will stop rounds from the AK-47 and the M4/AR15. The unique feature of these plates is the material. Made from Star 555 steel, they will stop steel-core penetrators as well as full metal jacket rounds.



*The Mayhem brand Tactical Exterior Carrier features a built-in suspension system which attaches to a duty belt.*

#### Mayhem Tactical Exterior Carrier

The Mayhem Tactical Exterior Carrier, from Intersport Group, Inc., is designed to provide optimal protection, accommodating trauma plates and ballistic panels. Weighing only one pound, the Mayhem Tactical Exterior Carrier is water-resistant, with an outer shell made of 100% 500 D nylon and an inner shell made of 100% heavyweight polyester. Unlike many carriers, there is a built-in

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suspension system which attaches to a duty belt. The shoulder straps are fully adjustable. The upper chest is comprised of rubberized grip, as well as internal rubber padding on the chest area for comfort. Full front and back MOLLE straps for accessories are located along the body's core. With quick release side closures and a back saving cummerbund support system, this carrier is easily taken on and off. A VELCRO® panel is placed on the upper back for department patches below a heavy-duty drag handle.

**PROTECH® Tactical Special Threat Plates**

PROTECH Tactical recently introduced the IMPAC™-HT1 plate to its line of IMPAC special threat plates. The IMPAC-HT1 provides protection from handgun and limited spike threats.

With the performance standards of the best-selling IMPAC-HT special threat plate line in mind, the IMPAC-HT1 provides the same high velocity handgun threat protection with the added benefit of Spike 1 protection. It was designed to meet the needs of teams seeking a lightweight option to face a limited amount of spike protection, but don't require the robust protection offered by the IMPAC-MT (multi-threat) plate line which addresses a wider range of spike and edged bladed threats.

**PROTECH Tactical Webless System**

PROTECH Tactical has improved upon the standard modular webbing pouch attachment system for tactical vests and plate racks. The Advanced Webless System incorporates precision laser

technology and HANK™ poly-fabric materials into PROTECH's most popular vest designs. The combination of technology and materials aim to offer lighter, more advanced modular framing, excellent pull strength and greater flame, abrasion, and cut resistance than traditional nylon tactical vests.

PROTECH Tactical says wearers should choose the Advanced Webless System when their mission requires lighter, more advanced modular framing and higher abrasion resistance.

**Point Blank Enterprises' Advanced Hard Armor Plates**

The advanced hard armor plates offered by Point Blank Enterprises, Inc. under its PARACLETE® line are capable of defeating high-powered Level III and IV rifle rounds either in combination with soft body armor systems or as a stand-alone. Manufactured from ultrahigh molecular weight polyethylene, the plates are available in a choice of two shapes, full-size or shooter's cut, with a total of five different sizes available. Measuring only one inch

**Laminate Provides Well-balanced Price/Performance**

Teijin Aramid's Twaron® UD22 is called a unidirectional laminate, available for use in soft body armor and consisting of two plies of Twaron yarn plied in a 0°/90° configuration. It uses smart UniDirectional (UD) technology which aligns the Twaron fibers in each layer in parallel direction. Each layer is individually constructed within a resin matrix, and thermoplastic film is laminated to the top and bottom of the two UD plies to ensure maximum abrasion resistance.

Today's antiballistic products need to meet increasingly complex specifications. They may, for example, need ballistic performance and stab protection in one vest or protection against a wider spectrum of projectile and fragment types. Teijin Aramid says that requires advanced hybrid solutions for protective vests.

Twaron UD22 has been subjected to a range of stress and ballistic performance tests and meets the NIJ 0101.06 tumbling requirements. Twaron UD22 is a solution for any new vest that needs to meet NIJ Level IIIA.

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thick, these new armor plates weigh anywhere from 1.05 pounds to 3.2 pounds.

#### Elbeco Vest Carriers with a Uniform Image

Elbeco Incorporated's Classic V2 Series Vest Carrier offers significant upgrades in functionality, comfort and performance to the wearer, all supported by a host of new tactical features, and can fit/accommodate the overwhelming majority of existing body armor panels in use today as well as most any individual body size/type.

Working in tandem with the V2 vest carrier is Elbeco's VSS1 Suspension system, a suspenders-like harness which attaches to an officer's duty belt so the entire weight of the belt and equipment doesn't rest on the hips and lower back. The suspension system itself is worn under the vest.

#### Top-Line Street Shirt<sup>®</sup> with Level IIIA Protection

The Street Shirt from Top-Line Armor is a 100% breathable uniform shirt carrier combined with Level IIIA ballistics. Its Pure Comfort Armor System<sup>®</sup> combines IIIA protection in a wearable package which rivals the comfort of any Level II and includes a 100% breathable Street Shirt carrier, Micro-Dry<sup>®</sup> inner liner with advanced moisture wicking and antimicrobial properties, Level IIIA NIJ 06 Certified Ballistics, and an internal cummerbund strapping system which helps to stabilize the vest.



Mocean's new two-tone external carriers are available in six different stock colors.

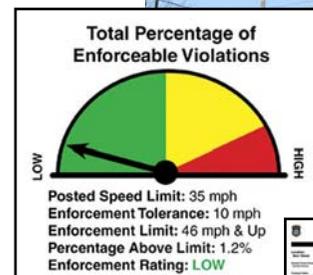
#### Mocean Two-tone External Plate Carriers

Mocean's new two-tone lightweight external vests carriers are designed to accommodate the majority of ballistic body armor vests worn under

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## Protection in the Active Shooter Environment

“Anytime law enforcement responds to an active shooter, there’s an enhanced level of risk,” said Michael Foreman, EVP International Business Development, Federal Sales and Marketing. “What we want to ensure is that we try to minimize that risk.”

While law enforcement agencies since Columbine were quick to respond with rifles in patrol cars, Foreman said, they were not as quick to provide rifle protection, adding that anybody who has patrol rifle programs or active shooter response plans should provide armor which includes rifle plates.”

“...As we know through events which have occurred nationwide and even globally, no community is immune from the potential of an active shooter unfortunately.... There’s an expectation in the community that everyone in law enforcement can respond quickly [and] effectively.”

While not everyone has the same budget, Foreman said, the expectations remain the same. Whether a department is small or large, officers will be trained and equipped to respond whenever an active shooter event occurs. Equipped means having rifle plates, plate carriers and shields, but purchasing the equipment isn’t enough.

“The key is to have the initial and ongoing training,” he said. “If you do not use the equipment properly, you can actually put yourself at risk.”

Al Baker of Baker Ballistics, who retired after 23 years with the NYPD and invented the Baker Batshield®, also emphasizes the importance of training and education.

All ballistic protection has its limits, noted Baker, who called on Rick Armellino’s 30 years of experience in armor design and manufacturing, to assist in the development of the Baker Batshield.

A ballistic vest protects the central torso region of the body; a shield covers more area and will stop a bullet and do so, usually, without injury. A shield

also can protect more than one responder if other responders line up and get behind the shield. Victims and bystanders can be protected, too.

Baker wants law enforcement officers to know not all shields are heavy and cumbersome.

He offers an historical perspective. In the wake of Columbine, larger, heavier bunkers with large view ports designed for slow, methodical clearing didn’t fit the mission.

When there’s a homicide in progress, he said, “If you don’t get in there quickly, more people could be killed, there’s a need for a hurry-up offense.” That need led to a lighter, faster shield, Baker said.

“You can’t carry a long gun and a bunker shield,” he said. However, a long gun can be carried with a shield which does not have a glass vision port and is therefore 50 to 60 percent lighter. With a lightweight shield, a single responder can have speed, mobility, firepower and protection in a rapid deployment.

First responders appreciate having the additional protection afforded by a lightweight shield. One of the newest features for lightweight shields is LED lights, powered by lightweight lithium batteries. Although they don’t provide light to disorient suspects, they can light the way for a rapid advance.

In the U.S., handguns pose the biggest threat, but if a suspect has a rifle, a handgun shield will not be effective. Instead, a thicker, heavier shield is needed.

As for where to store shields, Baker said, “A lot of times officers are under fire and they haven’t gotten out of their vehicle. That’s an argument against keeping the shield in the trunk.”

Baker suggests a shield can be strapped to the passenger seat, occupy the foot well of the passenger side or be kept in the backseat.

In addition to bullets, Baker reports shields have stopped arrows, knives and even fire.



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*The newest armor plate carriers from Condor feature a comfortable performance fit.*

a uniform shirt. Made of CORDURA® nylon, the 2-Tone External Vest Carriers are available in six stock colors and sizes up to 5X. The carriers are designed not to shrink, fade or stain and are machine washable and dryable.

### Condor Plate Carriers

The Condor Sentry Plate Carrier is an update of the classic Compact Plate Carrier and is designed to have a more comfortable performance fit while holding standard plates. Features include an emergency drag handle; quick cinch adjustments for the front; and hook and loop adjustments on the shoulders. The Condor Sentry is fitting for rapid response situations such as an active shooter call.

The Condor Gunner Plate Carrier is a minimized version of the Condor Quick Release Plate Carrier. Compacted to have all the same great quick release features, the Gunner is comfortable to wear while still holding plates and has additional MOLLE attachments on the cummerbund.

### U.S. Armor Ballistic Underwear

U.S. Armor's Ballistic Underwear provides femoral artery and genital protection while maintaining ventilation and heat management. A proprietary design utilizes ballistic soft body armor in an all-over stretch mesh fabric. According to U.S. Armor, the underwear will help keep those who wear it cool; dry; comfortable; and, most importantly, protected (Threat Level II protection).

Key features include a bio-shape cup design, breathable panel construction, antimicrobial moisture wicking and low profile for maximum comfort.

Ballistic Underwear sits close to the skin for a streamlined fit without the squeeze of compression. A moisture transport system wicks sweat away and dries quickly. Anti-odor technology



*Femoral artery and genital protection is now available from U.S. Armor.*

prevents the growth of odor causing microbes

The ballistic underwear is constructed with the same Ballistic Armor Package as used in U.S. Armor's Enforcer 5000 (Level II) vests (Honeywell GoldFlex®, SpectraShield II, DuPont Kevlar XP).



*About the Author: Rebecca Kanable is a freelance writer specializing in law enforcement topics. She lives in Wisconsin.*

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# Above and Beyond...

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"Above and Beyond..." salutes Detective Scott Wisner of the Connecticut State Police

**ABOVE AND BEYOND**

LOMAX

Artwork by Don Lomax



ON APRIL 8, 2013, CONNECTICUT STATE POLICE RECEIVED A REPORT THAT OFFICERS FROM OLD SAYBROOK, CT, WERE INVOLVED IN THE HIGH-SPEED PURSUIT OF TWO SUSPECTS ACCUSED OF ROBBING A LOCAL HOTEL AT GUNPOINT. CONNECTICUT STATE POLICE DETECTIVE SCOTT WISNER WAS PATROLLING NORTHBOUND ON ROUTE 153 WHEN THE FLEEING PERPS APPROACHED HIS CRUISER AT HIGH SPEED FROM THE REAR!

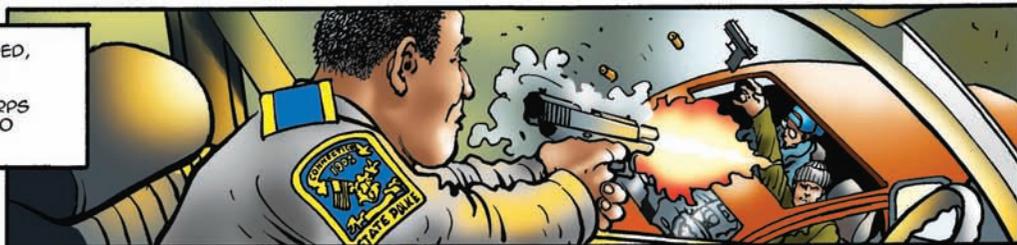
AS DETECTIVE WISNER WENT TO LIGHTS AND SIREN, THE SUSPECT'S VEHICLE COLLIDED WITH THE REAR OF WISNER'S UNIT! BOTH VEHICLES SPUN OUT OF CONTROL AND DOWN A STEEP EMBANKMENT!



THE VEHICLES CAME TO REST WITH BARELY FOUR FEET SEPARATING THEM! WITHOUT WARNING, THE PERPS OPENED FIRE ON WISNER, STRIKING HIM IN THE LEFT SHOULDER AND LEFT EAR!



ALTHOUGH WOUNDED, DETECTIVE WISNER RETURNED FIRE, STRIKING BOTH PERPS TO BRING A LULL TO THE FIREFIGHT!



BY THEN, RESPONDING OFFICERS WERE ABLE TO EXTRICATE DETECTIVE WISNER AND RUSH HIM TO THE HOSPITAL! THE WOUNDED ASSAILANTS FIRED ON THE NEWLY ARRIVED TROOPERS! IN THE EXCHANGE, TROOPERS SUCCEEDED IN KILLING ONE OF THE PERPS AND ARRESTING THE ONE REMAINING!



THE NATIONAL LAW ENFORCEMENT OFFICERS MEMORIAL FUND PROCLAIMED DETECTIVE SCOTT WISNER OFFICER OF THE MONTH FOR DECEMBER 2013. HIS FEARLESS ACT IN FACING THE TWO ARMED SUSPECTS IN DEADLY COMBAT WAS MOST DEFINITELY "ABOVE AND BEYOND!"



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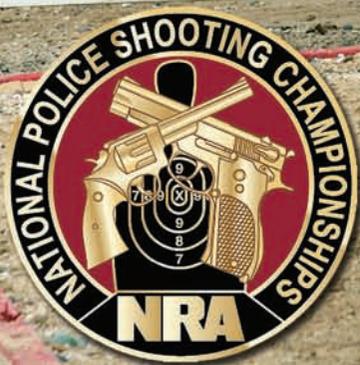
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# Working with Today's Media

Dr. Stephenie Slahor

**Journalists pounding a beat or assigned to public safety incidents were once the nearly exclusive way in which the public learned about incidents involving police personnel.**

Today, technology has ushered in a new age of media which has gone beyond print – to audio and video and to citizen input through ubiquitous cameras on electronic devices. The gathering and reporting of news have taken on a new look as depth and accuracy in reporting have expanded beyond the “city desk.”

Explaining the contemporary media landscape and how it impacts high visibility police work was Lt. Col. James I. Vance, USMC (retired), FBI Academy Instructor (retired) and adjunct faculty member of the University of Virginia and the University of Richmond. He was a guest speaker at the COPSWest Leadership Summit held late last year in Ontario, CA.

Lt. Col. Vance said the major changes in the news industry “can do harm or good,” especially as “entertainment and news collide.” Compared to former times in the news gathering business, “Who would recognize the news industry we have today?” he asked.

### Not Your Father’s Journalism

The digital revolution has entered a new era, he explained, with more than half of the US population owning a cell phone; with three out of ten people owning a tablet; and with passenger vehicles with Internet access built in. “Access to information is like nothing we’ve ever seen before,” Vance said.

“Information consumption” is the rule and that includes “news consumption.” He characterized that as a “boost to journalism, but not without cost.” Current statistics indicate that eight out of ten people will go to their computer or laptop for more information about something. That has created “incremental updates” which have replaced the old “news cycles.” He added that 47 percent of people get their news and take photos on their mobile devices, creating “the impact of citizen photography.” There has been a 43 percent decline in newspaper circulation since the year 2000. “Papers must embrace the Web, target specific communities, attract younger readers and focus on unbundling the news,” Vance said.

### Everything’s Changing

The future of news is influenced by the rapid growth of such things as hardware; software; browsers; E-mail services; social networks; and Web platforms for work, play and shopping. The news industry “is late to the game,” Vance stated. “It’s a follower, not a shaper.”

There has been a convergence of sorts between news reporting and the opportunities for the government to take its information directly to the public, he said. He described hard copy newspapers and magazines as being “in freefall,” and even ethnic media are having problems. There may be a

loyal base, but the advertisers want ever larger audiences. That will affect how the news is reported and via what media. It is a “migration to social media,” he said, “and the Internet is making the news industry reinvent itself.” Too, he added, the “questionable economy is drying up resources” and, of the 4600 news sites, the top seven percent control 80 percent of the traffic and the top 20 percent nearly all of the traffic. That trend has actually caused the loss of the numbers of journalists and news photographers, said Vance. Now, individual journalists are “personalities,” not news institutions,” he said. “It’s the lowest common denominator journalism!” he stated. “Media is narrowing, not broadening.”

### Social Media

“News is shifting from a ‘product’ to a ‘service’ and journalists are less in charge of their stories,” he said. In fact, social media is driving them through such avenues as Facebook™, Google™, Amazon™, Twitter™ and YouTube™. “The trend is to incremental updates, not full news stories,” Vance said. That means, some, or even much, information is not vetted, “so it’s a matter of perspective,” he said. “It is advocacy journalism” in a

battle between “high quality information versus agenda driven news.” With fewer investigative reporters and stories, more educated people don’t go to traditional news outlets because there is little or no substance to a story. It’s too digested, Vance said. “Scoops” are now exposed on social media and then scrutinized before the details are actually present.

Social media has moved from a fad to much more. “Your personnel are using it and not always wisely!” Vance cautioned. But, there is value in sites such as the International Association of Chiefs of Police’s social media access point which Vance termed “a treasure trove” for policies governing agency use of social media and for case studies.

Social media sometimes takes a role when news is bad, so there needs to be a cohesive and coherent plan about the use of social media – a plan in place well in advance and sold internally and externally to everyone in the agency, said Vance. “You need to define yourselves or someone else will!” he warned.

### Faster than Ever

The speed at which events can unfold and their resulting appearance on the news and social media is “lightning fast,” he said. “Plan for communication challenges,” he stated. “Embrace social media,” but put the agency in a light which

enhances the department's credibility. "Train to this new reality," Vance advised.

"Keep the victim focus. Don't let the internal audience learn from a leak or rumor source. If you view your own people as a liability, you have a leadership problem," he said. A Web site or social media link is a "depot to another stop, not the destination," he said. Link to police organizations, police periodicals, post your own press releases, and download through YouTube your high visibility case press conferences," Vance said.

Target the community inserts offered by the newspaper, he added. Some are on the Web, but the rest are accessible by those who pay to read an online version of the daily paper. Seize on issues, problems and stories; amplify them; and take charge of your own stories, he advised. Also, go on local radio because its audience is loyal to its community.

#### Reaching Out

"Social media will continue to drive news, covering more and more," Vance said. "Do aggressive self-promotion" through social media, Web sites, press conferences, news releases, public speaking, Chamber of Commerce and business meetings, and other forms of communication. "Get your side heard," he said. "Reach out to groups even if they're not supportive." And, if it's bad news which must be told, Vance advised, "get off the front page by saying it first and often."

He concluded, "Be giants in media relations – not midgets!" 

About the Author: Stephenie Slahor, Ph.D.,

J.D., is a writer in the fields of law enforcement and security. She can be reached at drss12@msn.com.



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Bill Siuru, Ph.D, PE

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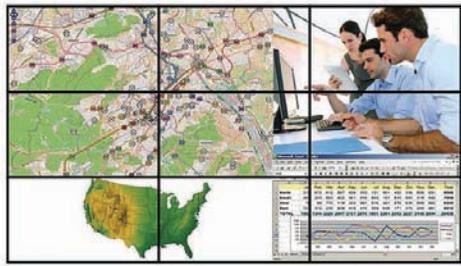
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to the proprietary hardware architecture of traditional systems. It is software driven versus hardware driven. This eliminates the need for special PCs, monitors or other hardware. All that is needed is Hiperwall software, plus off-the-shelf commercial display units, network switches and computers. The Hiperwall system is much more scalable, flexible and affordable than legacy systems on the market today, so presentation capabilities can be designed to meet an individual department's needs and budgets.

### Not Many Needed

Because Hiperwall is software driven, when displays with embedded computers are used, the use of many cords and cables is eliminated. Only a power cable and an Intranet (Ethernet) cable are needed for each display. Thus, installation and maintenance doesn't require specialized training or skills. Also, Hiperwall's distributed visualization capabilities allow displaying content not only on one wall, or in one room, but in multiple walls or rooms throughout an entire facility.

The Hiperwall control node (the brains of the Hiperwall system) controls



- **The Video Wall** displays your content as directed by the Primary & Secondary Controllers including Screen Senders, Streamers and content stored in advance.
- **Screen Senders** run almost any application on any computer and display the output on your video wall.
- **Primary & Secondary Controllers** use our simple drag and drop user interface to manage and arrange what, where and how everything is displayed on your video wall.
- **Streamers** capture live video from any number of sources and put it on your video wall. Cable TV, Video Conferencing System, Live Camera. Or even a DVD Player. You name it. Hiperwall can stream it.

### Components of the Hiperwall® Video Wall system

what, where, how and when content is displayed. The user interface display presents a miniature view of your entire network of Hiperwall displays and uses a WYSIWYG metaphor with interactive drag and drop simplicity to give the ability to place and locate content on those displays. Changing content on displays can be done manually by using the Hiperwall scheduler to set content changes at a specific time, or by using the API (Application Programming Interface) to control content displays from an external device.

### Greater Control

In some applications, content may have to be controlled from multiple locations or workstations. The secondary control node provides that ability with as many secondary control nodes as needed.

These can be scattered throughout the facility or operated remotely, providing the ability to render support from distant locations. Controlling of display content can be done by a conventional mouse and keyboard or by the display's touch screen, or, a tablet can be used for greater mobility. Each secondary control node has a WYSIWYG drag and

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drop interface, just like the primary control node, eliminating the need for specialized training.

The screen senders and streamers provide live feeds which deliver content to the displays over the network. The screen sender allows viewing of almost any application running on almost any computer. Start with an existing computer running one or more existing applications; add a Java® app provided by Hiperwall; and the output of those applications can now be transported across the network for viewing. There is no need to modify existing hardware or software. The only requirement is that the computers run Java (available as a free download). The Hiperwall's software flexibility allows the ability to deliver the entire screen to the wall or to divide it up into rectangular regions and deliver each region to the Hiperwall as an independent object. The screen sender software can even be run remotely, enabling collection of live feeds from around the world.

### Streaming Content

The streamer software is designed to provide high frame rate feeds to Hiperwall displays. Typically used for video and animation, multiple streamers can deliver simultaneous streams to Hiperwall displays. The streamer system supports streams of up to 60 frames per second at resolutions of 1080p or higher. Hiperwall streamers can import video from any external source via ordinary video capture cards, giving the ability to view feeds from cable TV boxes, videoconferencing systems, VCRs, DVDs, Blu-rays or live camera feeds. The streamers can also stream movies across the network, providing video jukebox capabilities.

Display nodes are the display devices driven by a computer running Hiperwall software. These include LCDs, plasma, projectors, LED modules, rear projection cubes or CRTs (the latest monitors with very narrow bezels provide the best continuity in presentations). All display computers work in parallel to give Hiperwall its unique power, flexibility and scalability. The display node software receives content over the network and displays it on the attached device.

Virtually, any computer can be used, including external mini towers, rack mount machines or blade servers. However, most Hiperwall installations now use monitors with embedded computers for cleaner and simpler installations with only power and Intranet cables needed.

### KCPD's Experience

The Kansas City Police Department's Terrorism Early Warning staff is using a Hiperwall video wall system to gather and share data and threats with more than 61 jurisdictions, including federal, state, local and private sector partners. The fusion center integrates law enforcement intelligence activities throughout the area and disseminates everything, from threat assessments to cities hosting large events, such as the Big 12 NCAA Basketball Tournament, to a database of blueprints of buildings like schools and hospitals. Troy Campbell, IT Specialist for the Kansas City Police Department, said he had no interest in a hardware-based solution, but focused on a Hiperwall software-based system.



## Chicago Patrols Gangs in “Virtual Playgrounds”

The Chicago Police Department – like its colleagues in New York – has detailed officers to watch those virtual playgrounds where gangsters get together and boast about who got capped, who fell and who should die, reports *Chicago Tribune* columnist John Kass.

“For gang members, social media is the new graffiti,” police spokesman Adam Collins told Kass. “It’s a way to communicate, to intimidate, to sound off, to taunt other gangs or to boost their own reputation.”

To read the entire column in the *Chicago Tribune*, go to <http://tinyurl.com/qasd89k>.



*Hiperwall® for the Kansas City Police Department’s Terrorism Early Warning staff*

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*About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.*

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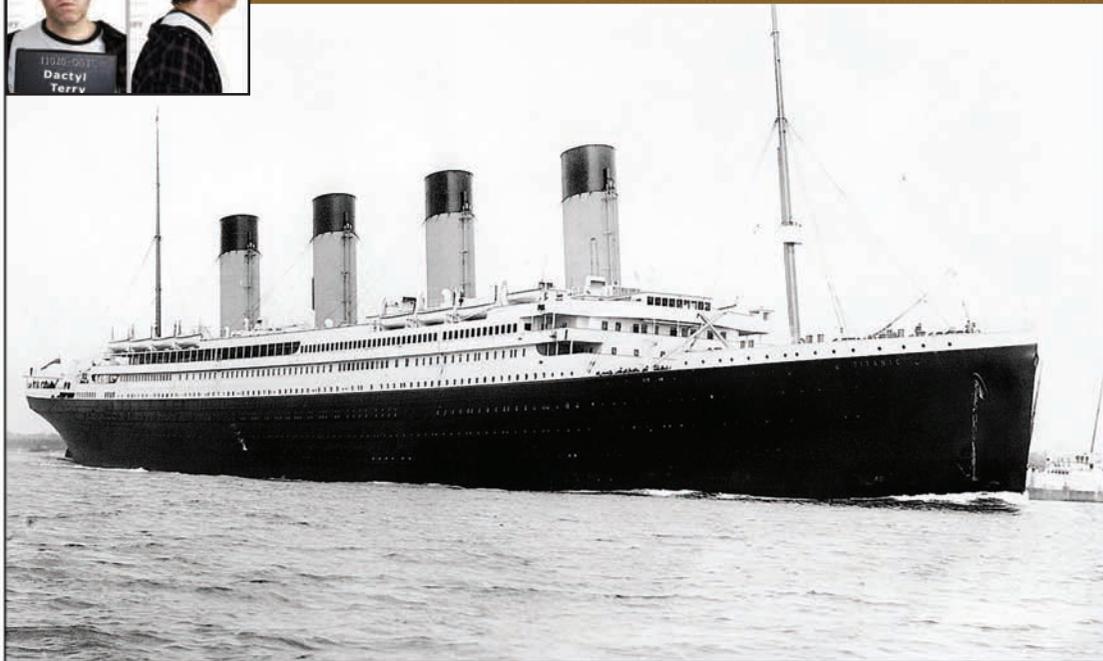
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James L. McClinton, Ph.D

## TITANIC CAPTAIN: "IN RETROSPECT, I SHOULD'VE AVOIDED THAT ICEBERG"...

"I saw her light on and wanted to say hello," the man told police. His girlfriend had just dropped him off at his Santa Rosa, California, home after a party and he said he saw his neighbor's light on and went over for a drink. It was 3:30 a.m. and the frightened neighbor woman called police. The man, a Sonoma County supervisor, was arrested for attempted burglary and prowling, but that was later reduced to "peeking" into the neighbor's window. He has pleaded not guilty and refuses to resign from office. But, the incident was more than just a simple misunderstanding, "It was a bad read," he told police. "A misperception on my part," he added. And, in a brilliant display of 20/20 hindsight, he also told the officers, "In retrospect, I should have had my pants on." (*Men without pants who peek in women's windows at 3:30 a.m. probably shouldn't expect to be invited in for a "drink."*)

**The problem with cocaine dealers is that they're always sticking their business into other people's noses!...** When a drug case was called in Broward County (Florida) Court, the bailiff announced the defendant's name. The judge was surprised and said, "What?" "My last name is Cocaine," confirmed the 34-year-old defendant named Edward Cocaine. He told the judge, "My great-grandparents came over here from Greece and they changed it. That was like in the 1920s." The judge laughed and asked, "How many times have the police told you to step out of the car during your life?" Cocaine thought the question was funny and even laughed it off, admitting, "Just about every time I get pulled over." The judge released Cocaine on his own recognizance rather than setting cash bail. (*This guy must have the best pickup line, "Hey ladies – you wanna party with Cocaine?"*)

**I've heard of "Meals on Wheels" before, but...** A Maryland woman may have been "braking bad" while allegedly driving a mobile methamphetamine lab down I-64 in Virginia. Virginia State Police

troopers stopped her on suspicion of driving under the influence after they spotted her driving her Chrysler hatchback very erratically. After she was stopped, police officers found a mobile meth lab in the 39-year-old woman's vehicle. Virginia State Police told TV reporters that officers discovered that the woman was "cooking meth as she was driving down the road." "It's considered a one person lab," said police. She was arrested and charged with driving under the influence of drugs; two counts of possession of a controlled substance; false identity; not having a valid operator's license; driving while suspended; and manufacturing methamphetamine. (*It's true what they say, "Nothing beats Mama's home cooking" – except a state trooper in a Police Interceptor.*)

**No one will ever accuse this heel of not having a sole!...** A man was released from prison in Tom's River, New Jersey, after serving a 15 year sentence for robbing a shoe store. So, what do you think he did on his first day of freedom? He chose not to spend quality time with his family and go to a

favorite restaurant or to a bar to celebrate with food and drink. Instead, he chose to head back to the very same shoe store he had robbed 15 years earlier and rob it again. He took a bus from the prison to Tom's River where he headed straight to the Stride Rite® store and threatened the clerk, getting away with \$389. He didn't get very far, however, and police caught up with him a few blocks away. He's headed back to prison. (*Apparently, the only thing he learned in prison was single-minded determination.*)

**The officers were quick to notice that the weapon had a "hair trigger"...** Police officers converged on a Maine man's home after members of a tree removal crew reported that he had a gun. It turned out that the "gun" the tree crew had seen on the Norridgewock man was just a life-sized tattoo of a handgun on his stomach. The man (who works nights) was asleep when the tree crew (which had been contracted to trim branches near power lines) woke him up at about 10:00 a.m. He went outside shirtless and yelled at the workers to leave. When he's not wearing a shirt, the tattoo looks like a gun tucked into his waistband. He told a local newspaper that the tattoo has never been a problem before. (*Maybe, he should tattoo a brain on his forehead.*)

**"Honest, officer, the difference between him and me is that one of us is both the same!"...** In Florida, a Hernando County Sheriff's detective happened across a 53-year-old man named James who was a longtime fugitive and detained him. But, James insisted that the officer had confused him with someone else and that he was actually his own twin brother who is named Gary. On a hunch, the detective tried a simple ploy and called out to "the man," "Hey, James!" which prompted "Gary" to quickly turn his head to see what the detective wanted. Police said "Gary" then put his head down and acknowledged that he was really James. He was held for extradition on a 30-year-old Michigan warrant. (*I know things have changed since I retired, but I'm told that fingerprinting is still a pretty good way to determine identities.*)

**Your Honor, I move for a mistrial – the witness just chewed up the Bible and he can't be sworn in!...** Court cases wherein dogs are allowed as "witnesses" are becoming increasingly popular in France and are becoming "something of a recent trend," according to French reporters. A nine-year-old Labrador retriever named Tango took the witness stand in the city of Tours so the judge could observe how he reacted to the defendant who was on trial for killing the dog's owner. In observance of due process of law, a second dog named Norman took the stand later, as a sort of "control group." Ultimately, the judge said he learned nothing from the dogs and dismissed them. (*I have to admit that using the local animal shelter as a safe refuge for the witness protection program is a brilliant tactic!*)





# New Technology

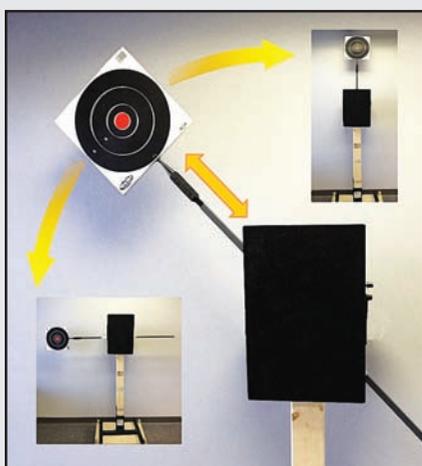


## New Waterproof Motorcycle Video System

WatchGuard Video® recently released the **WatchGuard 4RE™ Wireless Motorcycle Video System**. **4RE** utilizes a new high intensity waterproof LCD display; a waterproof camera; an industrial-grade, solid-state hard drive; and model specific motorcycle mounting hardware. Designed to be extremely power efficient, the entire system consumes only 1.6 amps while recording and it drops to just over 1/1,000th of an amp when in standby mode.

The **4RE** system uses the same video management platforms as the 4RE™ in-car video systems. This allows agencies which currently operate 4RE in-car systems to seamlessly add **4RE** motorcycle units into their fleet and manage all of their video systems with the same video management platform.

**Circle 4100 for More Information**



## New Robotic Target

From Targamite, LLC, comes the world's first robotic target, the **Targabot®**. Designed for any shooter to become a confident and competent situational shooter, **Targabot's** purpose is to build muscle memory in one's shooting skills to be applied when the unpredictable happens. Lightweight and portable, this target system combines standard targets with programmable robotics.

**Circle 4102 for More Information**

## New IR Zoom Camera

The **WPC-2.5ZIR** features a color mode as well as an IR illuminated B/W low light mode for dark environments and stealthy operations. The 10x Optical Zoom is controlled by a zoom in/zoom out switch built into the WalkAbout III display and can be easily actuated by the operator. Equipped with a companion nine foot telescoping, articulating pole, the camera is well suited for conditions which require both wide-angle and telephoto views. The **WPC-2.5ZIR** is part of an expanding array of interchangeable video components available from Zistos Corporation.



**Circle 4101 for More Information**



## New Digital Evidence Manager

Ocean Systems has released **QuickDME™**, a secure, end-to-end, scalable, digital media evidence asset manager which is easy to integrate within or between law enforcement agencies, allowing them to streamline the ingesting, storage, dissemination, tracking and viewing of all of their digital assets involved in a case. **QuickDME** supports all digital media files including video, images, audio, documents and programs and is flexible and customizable to match an agency's policies and procedures through its password protected administration functions.

**Circle 4103 for More Information**



## New Pole Mounted IR/Color Camera

The **TacView 3.10**, with a telescoping pole expandable from three to ten feet, can be used in full light or total darkness. The two inches in diameter camera has built-in auto on/off IR LEDs. The **TacView 3.10** features a 6.5" color/infrared monitor; a video-out jack to record video; and two power supplies – NiMH rechargeable batteries with a run time of up to eight hours and an emergency backup which holds eight AA alkaline batteries.

**Circle 4104 for More Information**

## New Wing Wraps for Ford and Dodge



Westin Public Safety Division has announced the US patent pending **Elite Wing Wraps** for the 2012-2015 Ford Interceptor and 2011-2015 Dodge Charger Pursuit. They are the third build on unit in their Elite front-end protection package and connect to the Push Bumper and PIT Bar Elite for a one-piece assembly. With a vehicle specific contour design, the **Elite Wing Wraps** are constructed of 1.5" diameter, 14-gauge mild steel tube; have a powder coat finish; a welded crossbar; feature black plated stainless steel hardware and bolt directly to the Westin Push Bumper and Pit Bar Elite.

**Circle 4105 for More Information**

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