

P&SN

Police and Security News

JULY/AUGUST 2016
VOLUME 32 ISSUE 4

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**What's New
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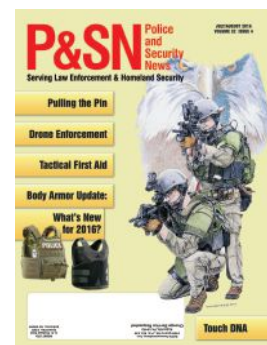
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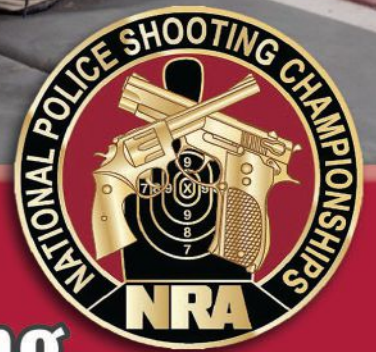
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...AND NOTHING BUT THE TRUTH

I've been told by four different people that I should have gone, or should go, to law school. I don't know. What would I do? Criminal defense? No. Civil? Ugh, maybe. Prosecutor? My heart would be in it, but it would have to be in the right jurisdiction.

I was very lucky during my two plus decades in homicide to have worked with some truly outstanding prosecutors, many of whom are judges now, but just as many whom I met in 1985 are *still* there. Being a prosecutor is an interesting, often stressful, job. Your first order of business is to assess the case which is brought before you. You don't really have a choice of what you are going to try, as the cases are "blind filed" in a certain judge's division (at least that's how it is done here). The most critical obligation you have is to assess each case on its own merit and make sure that the public's money is being utilized wisely in pursuing the prosecution. You literally represent the people – the crime is State (that's all of us) vs. John Doe. That's what has led to many, many arguments in prosecutors' offices with police officers:

"Sorry, you don't have enough here..."

"*Bullshit! When is your office going to grow a pair??*" And so on. Many of you have been there.

The backdrop of every one of these scenarios is the fact that the chief prosecutor is an elected official. And that, my friends, can have a huge effect on what gets filed and what does not.



"Nyberg for the State, Your Honor"

When the one who is running the show is essentially a politician who wants to remain in office, then big cases have to go through the political machine. What's the public's perception? What are the hot-button issues of the day? Which way is the wind blowing? I've walked into the State Attorney's office here in Miami-Dade County with cases which were admittedly borderline when it came to trial worthiness and walked out with marching orders to "go get more evidence." I've walked into the same office almost trotting to keep up with a salivating prosecutor who could not wait to file a case which was way less worthy because the defendant was a cop.

Today, we see prosecutors who are

willing to push cases in front of the bright lights of the news media's cameras and these cases are *appallingly* weak and lacking in elements. In most cases, those same prosecutors who will argue points about probable cause and witness credibility to the point of exhaustion will happily trample all over the tepid (or *nonexistent*) witness testimony and noncompelling physical evidence to throw the angry villagers (crowding city hall with their pitchforks) a bone to chew.

Regardless of how you feel about George Zimmerman, who has arguably proven himself to be an insufferable asshole, he never should have been charged in the death of Trayvon Martin. It was a terrible case and the prosecutors *admitted* it after the verdict of acquittal. They sheepishly got in front of the cameras and all but said, "Yeah, we knew the case sucked, but we covered our butts!"

The same goes for the deplorable actions of the Baltimore State Attorney Marilyn Mosby who filed charges of murder – *murder!* – in the now infamous death of Freddie Gray. At the time of this writing, three of the officers were acquitted of the charges. The judge presiding over the case said that the "prosecution failed to meet its burden to show that the actions of the defendant rose above mere civil negligence." Outside, a spokesman for the Baltimore NAACP

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said in response that the “rules and laws need to be changed,” because things like police procedures, use of force and even the Bill of Rights are “difficult.”

So, because these things are “difficult” and a man riding in a police van died (oh, by the way, none of the other prisoners were injured in the least), *the laws need to be changed?*

Let me pause here to address anyone who is conjuring up a charge against me that I might be racist in some way. I don’t see any racial bias in this case. Eight of the twelve jurors who found the first officer not guilty are black – so is the officer and two of his codefendants and so is the judge.

The police union in Baltimore has accused the Baltimore State Attorney’s Office of malicious prosecution. They could have a point. Freddie Gray’s death came amidst a whirlwind of police involved shootings and brutality investigations, including Ferguson and the cases in New York. The public outcry was deafening. The pitchforks were waving outside city hall and Marilyn Mosby crumbled under the pressure.

Marilyn Mosby should resign in disgrace – so should any prosecutor who is willing to lock up innocent people just to toss meat to a ravenous and vengeful crowd.

And just how long do we put up with civic leaders who say that we need to change laws because they don’t like the outcome of a trial? Here are my questions for them and I hope someone asks them (in fact, I just might).

Which laws should be changed and what should they say after the revision? Do you want different laws for defendants who are police officers than for everyone else? Should certain classes or groups of people get special consideration, a special jury or a different level of burden of proof? Ah, that pesky old Fourteenth Amendment! I suppose we should do away with that silly thing they call, what is it, the “equal protection clause”? I mean who cares about the hard work of people like Dr. Martin Luther King and Thurgood Marshall, right?

Okay, I gotta go now. I’ve got letters to write. **P&SN**

Ramesh Nyberg retired from law enforcement in November 2006 after 27 years in police work. He now owns his own private investigation agency, Nyberg Security and Investigations, and can be reached at Ramesh@NybergPi.com. He enjoys getting feedback from readers.

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FOCUS ON TECHNOLOGY

New Optic from Trijicon



The Trijicon® **Miniature Rifle Optic (MRO™)** has a bright and crisp 2.0 MOA Dot, ambidextrous control knobs and sub-flush adjusters. Light and rugged, it mounts easily, zeros quickly and adapts to almost any shooting scenario. It is waterproof to 30 meters and you can expect five years of continuous use at day-setting 3 from the CR2023 battery.

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New Tactical Bag



From Fox Outdoor Products, the **Over the Headrest Bag** is perfect for organizing essential gear. The main compartment features a wide opening and a removable divider. It comes with a conceal carry pocket on the back side and a front storage compartment and three accessory pockets on the front side.

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SWAT and Tactical Equipment

Tactical Leg Rig

The **TUFF Active Shooter Kit (T.A.S.K.)** comes with a zippered pouch to hold an officer's Personal Trauma Kit (P.T.K.). It is an all in one leg rig system which holds (but are not included) four 20 or 30 round AR-15/M4 magazines, EMT shears, latex gloves, surgical tape, modular bandage, tourniquet, and chest seal. Everything stores conveniently into the zippered P.T.K. Pouch.

The leg drop is adjustable to different heights and comes with a TUFF Hook System intact. The elastic leg strap and buckle system wraps around the thigh securely.

It is manufactured with 1680 denier black ballistic nylon and double layered scuba webbing. The included TUFF Quick Hook Mounting System comes with a heavy metal snap hook and a notched polymer ring for saving valuable belt space and easy on and off attachment.



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New DD Magazine™

Daniel Defense recently announced the release of its all new **DD Magazine**. This lightweight, but durable, **magazine** for M4, M16, and all AR-15 variant 5.56mm rifles holds 32 rounds of 5.56x45mm NATO or 300BLK.

This new **magazine** is constructed of a carbon fiber reinforced polymer and weighs only 4.6 ounces (unloaded). It features an improved feed lip design and an enhanced anti-tilt follower which provides smooth, reliable feeding.



Circle 4010 for More Information

New Flash-bang

Combined Tactical Systems (CTS) has added to their innovative line of noise flash diversion devices with the release of the **7290ML**, a lighter weight, higher output design which expands on the popular 7290M Mini Bang™. Weighing 267 grams, the **7290ML** has light and sound outputs of four to six million candela and 175 dB, respectively. All CTS flash-bang models release energy from top and bottom vents, a safety feature designed to prevent the device from becoming a dangerous projectile.



Circle 4011 for More Information

New Hydraulic Multipurpose Tool

Hurst Jaws of Life, Inc. has introduced the **StrongArm™**, a portable hydraulic power tool for use in a variety of tactical applications. With a built-in Picatinny accessory rail and a four position handle, the **StrongArm** cuts, lifts and spreads, replacing crow-bars, halligan bars, wire cutters, and more. It can quickly cut through 3/8" rebar, grade 43 chain and two-by-four wood.

Its compact, portable design makes it easy to carry and allows it to fit into tight spaces. The **StrongArm** weighs 21.4 pounds and comes with two sets of tips, two lithium ion rechargeable batteries and one charger.



Circle 4013 for More Information

New Reflex Sight



Featuring a digital switch control with six variable brightness levels for daytime use and six settings in night vision mode, the new Sightmark® **Ultra Shot™ M-Spec Reflex Sight** is built for adaptation to any shooting environment. Its magnesium alloy housing offers exceptional durability along with a battery life of up to 1,000 hours of superior functionality. Fully submersible up to 40 feet of water, the **Ultra Shot M-Spec** is equipped with dual pane glass and a parallax corrected lens system, allowing shooters to sight accurately from ten yards to infinity.

Circle 4014 for More Information

New Ballistic Vest



The **ARMIS** ballistic vest, from Point Blank Body Armor, is a highly scalable, side opening carrier which allows tactical units the flexibility to configure the system to meet mission specific needs. This includes the capability to release the complete vest in one quick motion and select the specific level of protection needed, while enhancing mobility, agility and a substantially improved range of motion for the operator. The ergonomic carrier shape offers optimum protective coverage while maintaining maximum maneuverability (front, back and sides).

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Active Response Breachers Kit



The **TACOPS® ARBK (Active Response Breachers Kit)**, from TSSi, is a portable breaching tool system with full-size telescoping and folding handle tools which provide a full force solution to breaching requirements. It is designed to allow responders to active shooter situations to gain entrance into a structure while wearing the TACOPS Active Response Breachers tool quiver and have the ability to tactically employ a sidearm. This design allows the responding officer to retain the breaching tools throughout the entry to address any other barricades which may be encountered.

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LAW ENFORCEMENT LEADERSHIP

“The Times They Are A-Changin’ ”

Michael Carpenter

THE FIRST STEP TOWARD CHANGE IS AWARENESS.

Do you remember who sang that song? (Or, maybe you're old enough to remember listening to that song on a transistor radio!) Either way, even though it was written more than 50 years ago, the fact is that the times are still changing...and, in some cases, changing very quickly. In the private sector, if a store doesn't continually change by updating its inventory regularly based on customer needs, then it will lose its customers and, eventually, it will have to close. But, what about criminal justice agencies? Some knowledgeable people in the field claim

that we are too slow to change and that agencies typically make changes only when they are forced to – either by new court decisions or by new laws. If that is the case, maybe that's why some agencies have had some serious issues recently and may be one reason why policing is facing increasing scrutiny from many sides.

Stating the Obvious?

“So what!” some might proclaim. “Law enforcement hasn't changed in centuries – bad guys commit crimes and we arrest

bad guys. It's that simple!” Well, as we know, it's not that simple anymore. No one can argue – especially in the last couple of years – that agencies and individual officers have not been put under the magnifying glass of public scrutiny. Let's not open up a can of worms about why this is happening or whether it's fair or not. The fact is that it is happening and it will continue to happen into the foreseeable future. That means all agencies have to deal with this fact. So, it looks like we can continue to do the “same old” or we can make positive and forward thinking changes. Like any other business which wants to stay current and viable, let's talk about making some adjustments. Change is necessary in any business – and maybe we should start considering ourselves a business. We provide a service to “customers” (just like any other business); we deal with many “repeat customers” (like any other business); it's easier when our “customers” have some understanding of the services that we can, or can't, provide; and we should plan on making changes now to do the job better in the future (and not wait until we are forced to change because of a court decision or a new law).

Stepping Up

As a member of the command team in your agency, it is your responsibility to take the initiative and to implement change in a smooth and efficient manner. To do this, you must manage the change process from beginning to end.

Following a few simple rules can help make your job, and the jobs of your subordinates, much easier in implementing any change (whether big or small). The effective implementation of change in your agency (or unit or shift) will reflect very favorably upon your performance as a commander. Police supervisors who fail to effectively manage the change process run the risk of damaging their careers and not fulfilling the overall goals of the agency.

Prepare for the Change

Few changes are thrust upon you with absolutely no warning. A good supervisor stays alert to future change possibilities and can sometimes anticipate the direction where change might need to occur. For example, by monitoring recent court decisions, unusual local cases and nationally publicized incidents, you can gain valuable insight into what changes may be coming. I am continually amazed by how many supervisors and commanders in the field don't regularly monitor the status of pending federal and state court



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decisions which could impact their job or they don't bother to check the current events of what's happening in policing.

Begin by discussing the subject or case or the incident casually with your employees. Gauge their reactions to some of the problems, issues or changes which might be brought about as a result of what has occurred. Allow them to vent their feelings and also to offer their ideas on the subject. Listen to them carefully. Their input and reactions should be important to you. Before the hint of change arrives on your department's doorstep, you may have already identified problem areas and explored various options, as well as having identified the employees who may resist certain changes and those who are willing to readily accept certain changes.

Keep Everyone Informed

If there is a change being considered, begin a dialogue with all employees who could be affected by an up-front and open discussion regarding the changes which are under review. If you find extreme resistance or overreaction to a particular alternative from your employees during your informal discussions, convey those concerns to your boss. If you sense strong feelings toward a particular alternative

IACP Launches Institute for Community-Police Relations

NEWS

The International Association of Chiefs of Police (IACP), in partnership with the Motorola Solutions Foundation and the Office of Community Oriented Policing Services, U.S. Department of Justice, is pleased to announce the launch of the IACP Institute for Community-Police Relations. The IACP Institute for Community-Police Relations is designed to provide assistance to U.S. law enforcement agencies looking to enhance community trust by focusing on culture, policies and practices.

The Institute for Community-Police Relations is available at <http://www.theiacp.org/ICPR>.

from your boss, convey that to your employees to help them prepare for that possible alternative. Such open communication could help to reach a compromise acceptable to everyone in the organization and could lead to a smoother transition rather than a "We're doing it this way because I'm the boss" type of approach. Naturally, you must be careful during this procedure to ensure that you don't violate anyone's confidence, up or down the chain of command.

Be Honest and Straightforward

If you are a well respected and professional supervisor, your opinion on the matter under consideration should be valued by both your subordinates and superiors alike. If you are a respected and informed member of the management team, your honest and knowledgeable opinion can make a difference in what changes are made or when and how these changes occur. This is not the time to be quiet, since you will be living with

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the final changes as much as anyone else. But, it's also not the time for an obnoxious laced screaming rant, either. Make your opinions known on the matter in a professional and well-thought-out manner. However, keep a flexible stance and an open mind. You may not be privy to all of the facts or reasons for the changes until you have discussions with your bosses. Should new information be available to you, you may have to ultimately be responsible for implementing a decision substantially different from the one you originally favored. Even if that occurs, you will have gained respect from everyone for making your opinions known in a knowledgeable and professional manner.

Explain and "Sell"

When the decisions have been made at levels above your rank, it is finally time to explain the new change or new policy or procedure to your subordinates. This is often at a group meeting. Try to explain why the decision was made and why it was viewed as the best alternative. Focus on the factors which will affect your people personally. Also, help them to see how the change may favorably affect the

department's mission or maybe even to help them do their job better. As your initial opinion may have been swayed by new information or facts when you had a discussion with your bosses, now may be the time to "sell" the changes to your subordinates. Allow reasonable discussions on the matter and respond to all concerns as best you can. Assure them that you personally support the decision (to do less would be to fracture the management team and the unity of command and that could adversely impact your career). It is an important part of your job as a police supervisor to "sell" the decisions of your superiors, whether or not you agree with them, and to make it clear that you expect it to be implemented as quickly and as smoothly as possible.

Avoid Overkill

When explaining the changes to your subordinates, of course not everyone will readily accept them despite your best efforts. Humans tend to resist change. (Did you ever notice that all of your officers sit in the same chairs during every roll call or at your briefings?) When you feel that the subject has been fully presented and

discussed, and that a large majority of the employees will accept the changes, then end the meeting. If you feel it is necessary to continue the discussion with a particular employee, you may want to meet them one-on-one in your office. Further discussion may be worthwhile, but eventually the discussion must end and you must make it clear that the appropriate changes must be implemented by all employees, whether they personally agree with them or not.

Caution

Since it is a part of your job on the "management team" to implement upper level decisions, be sure that you do so honestly. If you do not convey the impression that you personally support the decision and that you seriously intend to see this change implemented, then your people will not take the change seriously and may tend to ignore it. (Don't start your roll call by saying something like, "The Chief must be smoking some good stuff lately! You won't believe the latest bunch of crap that he expects us to do.") That will lead to problems within your unit or shift and will ultimately cause problems and conflict up and down the chain of command. You will become the person in the middle and the resulting turmoil will undermine your authority (because you know that, sooner or later, what you said will get back to the Chief) and it will adversely affect your career. In addition, you will be seen as an ineffective leader when your people don't implement the directed changes.

Change will continue to occur in police work as it does in the rest of the world. Like it or not, in the next couple of years, we could be looking at significant changes. Those who accept the necessary changes and manage the change process effectively will continue to be successful commanders. Those who can't, or won't, accept change will find themselves with chronic problems within their agency or within their units. Ultimately, those ineffective commanders will be removed from their command and replaced by someone who can effectively manage the change process. **P&SN**

Mike Carpenter has been working in the field of law enforcement for more than 30 years. He has written several books on the topic of police leadership and supervision, as well as more than 100 articles for publications. He runs a successful consulting business, www.PoliceManagement.com. You can contact Mike at MJCarpenterX2@yahoo.com.

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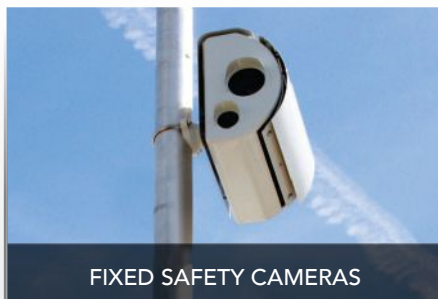


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The **Men's Long Sleeve Ventilated Ripstop Tactical Shirt** offers comfort and ease of movement. The **shirt** is easy to care for with stain-resistant technology and wrinkle-free fabric. The purpose-built, field-tested **shirt** stores all of your tools and accessories, keeping your hands free when an immediate response is required. It also includes hidden pockets, loops and adjustable closures to store all of your necessary gear. The **shirt** is available in black, desert sand and midnight blue.

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DeSantis recently introduced **numerous new fits for the #M67 Nylon Mini-Scabbard** – the SIG P238; the Kimber Micro Carry; the Colt® Mustang and Pony; the Ruger LCP .380; the Kel-Tec P3AT; the Walther® CCP; and the Ruger LC9 with a LaserMax laser sight.

The **Nylon Mini-Scabbard #M67** is a sturdy, light-weight and trim concealment holster made for a large variety of handguns. It features an adjustable tension device and is precision molded from ballistic nylon and thermoformable materials. It will accommodate belts up to 1 1/2".

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The **External Back Defender** is to be worn outside the uniform, under the external carrier vest. The system provides an adjustable H-Harness upper with four quick release keepers (in styles to match your uniform code) for attachment to the duty gear. It allows you to loosen your duty belt to a comfortable position while distributing the weight to your shoulders, chest, and back.

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The **Urban Force TRU Pant**, with a 12 pocket "no VELCRO®" design, features a comfort fit slider waistband; reinforced knife/utility pockets; cargo pockets with auto closure flaps and drain holes; internal knee pockets for optional knee pads; and a gusseted crotch. Covered zipper vertical side seam pockets are incorporated into the extra deep front pockets and the hemmed bottom has internal buttonholes for an optional drawcord.

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Learn more at havis.com

Circle 4032 for More Information



Drones, the FAA and Local Law Enforcement

The FAA would like to enforce existing drone laws with the help of state and local agencies.



Bill Siuru, Ph.D., PE

Drones are utilized for a myriad of reasons: by hobbyists for fun; by law enforcement for surveillance; commercially for movie production filming; and by realtors showing property to clients. Like all aircraft, the Federal Aviation Administration (FAA) is responsible for enforcing Federal Aviation Regulations for Unmanned Aircraft Systems (UAS). However, FAA aviation safety inspectors, mainly responsible for investigating unauthorized and/or unsafe activities, are often unable to immediately travel to the location of an incident. Therefore, the FAA recognizes that law enforcement agencies are in the best position to deter; immediately investigate; and, when appropriate, enforce laws to stop unauthorized or unsafe UAS operations.

Resources

The FAA has published *Law Enforcement Guidance for Suspected Unauthorized UAS Operations* to assist law enforcement in understanding and helping FAA enforcement against unauthorized UAS operators and/or unsafe UAS operations. It provides guidance regarding law enforcement's role in deterrence, detection and investigation. A guidance card, "LEO Guidance for Unmanned Aircraft Systems (UAS)", is also available for quick reference (www.faa.gov/uas/law_enforcement).

Law enforcement is better situated to contact suspected operators and any participants or support personnel. Since the FAA bears the burden of proof, showing who actually operated the UAS is critical.

Likewise, the purpose for the operation can be important in determining what regulations, if any, were violated.

Local law enforcement is best able to identify witnesses, conduct initial interviews and document observations while still fresh. They can also provide contact information for FAA inspectors so they can reinterview witnesses since administrative proceedings are often very technical and

state law may prohibit the transmission of witness statements to third parties, including the FAA.

Photographs and videos from public or private security systems can also provide essential evidence for the FAA. Local law enforcement is well versed in collecting and preserving this evidence, as well as obtaining legal justification for securing it. Pictures taken near suspect

Types of Authorized UAS Ops and Required Documentation:

Required documents must be in operator's possession and presented to law enforcement upon request per 49 U.S.C. 44103(d)

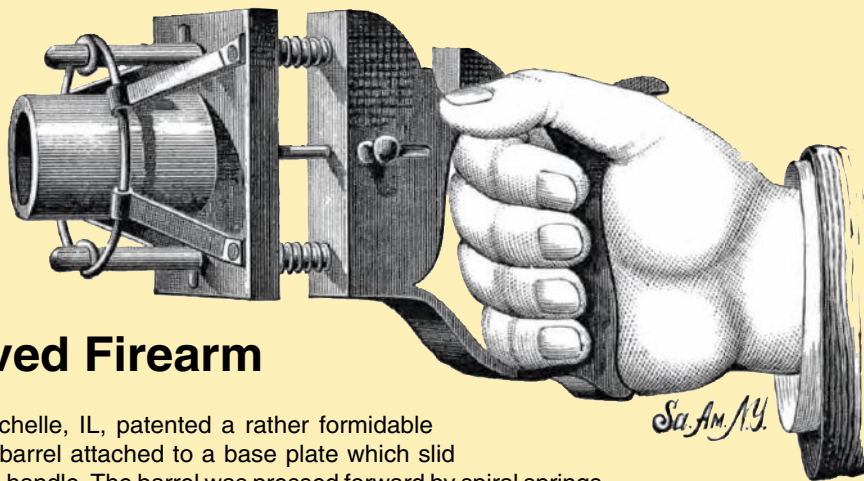
Model Aircraft	Non-Model / Commercial	Public / Government
<small>An unmanned aircraft that is 1) capable of sustained flight in the atmosphere, 2) flown within visual line of sight of the person operating the aircraft, and 3) flown for hobby or recreational purposes. Must be operated within <u>ALL</u> of the following parameters:</small>	<small>Any UAS operation conducted for non-hobby or commercial purpose <u>OR</u> any operation that does not meet the parameters for Model Aircraft. Operator must possess <u>ALL</u> of the following documents:</small>	<small>Public agencies or organizations that conduct UAS operations for a government function. Operator must possess <u>ALL</u> of the following documents:</small>
<ol style="list-style-type: none">1. Strictly for hobby or recreational use2. Must give way to manned aircraft3. Less than 55 pounds ²4. Operated in accordance with community based set of safety guidelines ³5. If within 5 miles of airport, must notify airport operator and control tower (if tower)6. Registration and Markings ¹	<ol style="list-style-type: none">1. Section 333 Exemption ⁴ or Aircraft Certification2. Certificate of Authorization (COA) ⁵3. Aircraft Registration and Markings ¹4. Pilot certificate ⁶	<ol style="list-style-type: none">1. Certificate of Authorization (COA) ⁵2. Aircraft Registration and Markings ¹
ALL UAS: <ul style="list-style-type: none">• Must have Registration and Markings ¹ (required for all UAS greater than 0.55 lbs)• Must not endanger persons or property on the ground• Must give way to and not interfere with manned aircraft• Must comply with all flight restrictions and Temporary Flight restrictions ⁷• Are subject to legal enforcement for Careless or Reckless operation		
<small>¹ Aircraft Registration and Markings: All UAS greater than 0.55 lbs are required to be registered, regardless of the type of operation. The operator must provide the registration certificate (paper or electronic) upon request and the UAS must be marked with the registration or serial number. To verify registration, contact a LEAP agent during normal business hours or the Regional Ops Center after hours.</small>		
<small>² Aircraft is limited to no more than 55 pounds unless certified through design, construction and inspection by community based organization.</small>		
<small>³ A membership based association that represents the modeling community and provides its members a comprehensive set of safety guidelines.</small>		
<small>⁴ 333 Exemption: FAA Letterhead dated and signed with an Exemption Number and Regulatory Docket Number. Includes conditions and limitations such as: (Not required for: UAS with an FAA Airworthiness Certificate or Public/Government Operators)<ul style="list-style-type: none">➤ Line of Sight: The UAS must be visible at all times to the operator using his or her own natural vision.➤ Daytime only: Unless specifically authorized in the COA, UAS operations must be conducted during daytime only.</small>		
<small>⁵ Certificate of Waiver or Authorization (COA): FAA Form 7711-1 signed by UAS Tactical Operations Section and includes FAA Docket Number. Addresses specific restrictions such as:<ul style="list-style-type: none">➤ Altitude: As stipulated on cover page of COA. Generally 400' or 200' (but can be higher).➤ Proximity to Airports: As stipulated on COA.</small>		
<small>⁶ Pilot certificate: All non-model/commercial operators must have an FAA pilot certificate (Government agencies may self-certify pilots)</small>		
<small>⁷ Temporary Flight Restrictions (TFR) are common for Presidential movements, select sporting events, theme parks. Active TFRs are published here: www.faa.gov</small>		



Published 3/8/2016 Rev. 1

**"LEO Guidance for Unmanned Aircraft Systems (UAS)"
for quick reference by law enforcement agencies**

TECHNOLOGY FROM THE PAST



Royal's Improved Firearm

In 1878, Jarvis Royal of Rochelle, IL, patented a rather formidable weapon. It consisted of a short barrel attached to a base plate which slid upon two rods projecting from the handle. The barrel was pressed forward by spiral springs which surrounded the guide rods. The handle, or stock, was similar to a saw handle. It contained a lock or spring mechanism which threw the needle forward into the cartridge when the trigger was pulled. The recoil which followed the discharge of the weapon was absorbed by the spiral springs, relieving the hand from the shocks which usually follow the discharge of a firearm.

This weapon was especially useful in fighting in close quarters, as in a marine engagement. Its large caliber enabled it to carry formidable and effective ammunition, while its length was such that it could be used when rifles and ordinary pistols were useless. Either shot or shells could be used. It seemed like a good idea at the time, but, as with many ideas, it was lost in the midst of history.

Photo: Scientific American

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events are helpful in describing light and weather conditions, damage or injuries, and the number and density of people, particularly at public events or in densely populated areas. Fixed landmarks on maps, diagrams or photographs help in establishing the position of the UAS and to describe lateral distances, altitudes and location of structures and/or people.

Law enforcement should immediately notify one of the FAA's Regional Operation Centers (ROCs), which are located throughout the US, of an incident, accident or other suspected violation. These centers can dispatch appropriate duty personnel resulting in a more timely initiation of the FAA's investigation.

Restrictions

The FAA maintains airspace restrictions to protect sensitive locations, events and activities through Temporary Flight Restrictions (TFR), prohibited areas, and other means, such as the Washington, DC, Flight Restricted Zone, for example. UAS operations, including model aircraft flights, are generally prohibited here. Law

"Good cops make their bosses look good, and Hector was a one-man beauty school."

— Edward Conlon, *Blue Blood*

enforcement should be familiar with airspace restrictions within their area, especially TFRs such as during select law enforcement activities, flight operations and Presidential travel. For up-to-date information, contact the nearest air traffic facility, flight service station or go to www.tfr.faa.gov.

The FAA has designated three categories of UASs – Model Aircraft, Non-Model/Commercial and Public/Government – each with different rules. All unmanned aircraft over 0.55 pounds including model aircraft operating in the National Airspace must be registered with the FAA. Furthermore, required documents must be in the operator's possession and presented to law enforcement

upon request. This can be a paper copy or an electronic registration.

A registration number must be placed on the UAS so it is readily visible (this may be inside a battery compartment, provided no tools are needed to open the compartment). The number will be unique to the operator for model aircraft and unique to the aircraft for nonhobby UASs.

Commercial and government UASs will have "N-numbers." The presence or lack of these identification numbers may be significant in an FAA investigation. The registered owners of UASs operating under an approved commercial or governmental authorization can be found by searching for the N-number on www.faa.gov. These numbers can be verified by contacting an FAA Regional Operations Center, the Washington Operations Center or an FAA LEAP Special Agent.

Model Aircraft

Model aircraft do not require FAA approval, but now must be registered. Model aircraft must be flown within the visual line of sight of the person controlling the



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aircraft and only for hobby or recreational purposes. The aircraft must weigh no more than 55 pounds, unless otherwise certified through a program administered by a community-based organization. The aircraft must not interfere with and give way to any manned aircraft. When flown within five miles of an airport, the operator should provide the airport operator and the airport air traffic control tower with prior notice of the operation. The FAA has the authority under its existing regulations to pursue legal enforcement action against persons operating model aircraft when the operations endanger the safety of the NAS or if flown in a careless or reckless manner.

All UASs not operated as model aircraft currently are required to be operated as an authorized aircraft with a valid registration number (N-number). They must be flown by a certificated pilot and have specific FAA



Even this tiny drone needs an FAA "N" registration number if it is used for commercial purposes.

authorization (Certificate of Waiver or Authorization).

Enforcement

Although there are Federal criminal

statutes pertaining to some UAS operations, most violations of the FAA's regulations may be addressed through administrative enforcement measures. These include warning notices, letters of correction, suspension or revocation of airmen certificates, and civil penalties of up to \$27,500. Criminal penalties can include fines of up to \$250,000 and/or imprisonment for up to three years. The U.S. Government may even use deadly force if a UAS poses an imminent security threat. In addition, states and local governments are enacting their own laws regarding the operation of UASs, as well as being covered by more broadly applicable assault, criminal trespass or injury to persons or property laws.

The FAA cautions that law enforcement procedures, such as arrest and

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Circle 4040 for More Information

detention or non-consensual searches almost always fall outside of the allowable administrative enforcement actions within the scope of the FAA unless they are truly a by-product of a state criminal investigation. Witness interviews, "stop and talk" sessions with suspected violators, consensual examination of vehicles and equipment, and other methods which do not involve court orders or the potential use of force by law enforcement personnel can be useful to the FAA. However, the FAA does not discourage use of normal law enforcement methods and procedures where there is an independent basis for them under state or local law.

For more information, contact your local FAA Law Enforcement Assistance Special Agent or the FAA's Law Enforcement Assistance Program Office at (202) 267-4641 or (202) 267-9411. **P&SN**

Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. For the past 45 years, he has been writing about automotive, aviation and technology subjects.

Developing a Policy on the Use of Social Media in Intelligence and Investigative Activities: Guidance and Recommendations

NEWS

With the increasing use of social media by law enforcement and the potential concerns for maintaining citizens' privacy, civil rights and civil liberties, it is important to develop and implement a policy on the use of social media in intelligence and investigative activities. To assist agencies in drafting a social media policy, the Bureau of Justice Assistance – with the support of the Global Justice Information Sharing Initiative Advisory Committee and the Criminal Intelligence Coordinating Council – has developed a resource for law enforcement leadership and policymakers on the use of information obtained from social media sites as a part of criminal intelligence and investigative activities.

The guidance document is available at <http://tinyurl.com/gnwknls>.



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ABOVE AND BEYOND

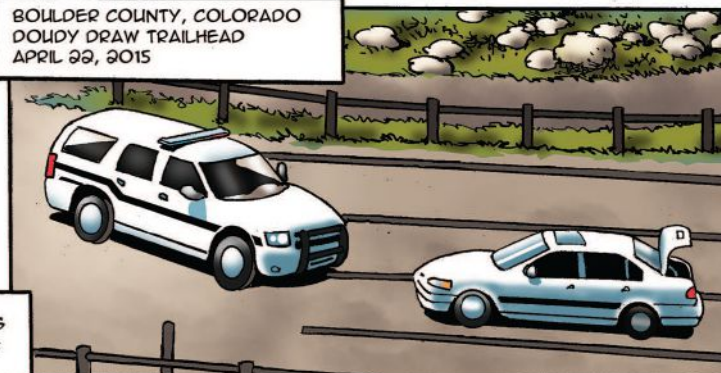
ABOVE
AND
BEYOND



Artwork by Don Lomax

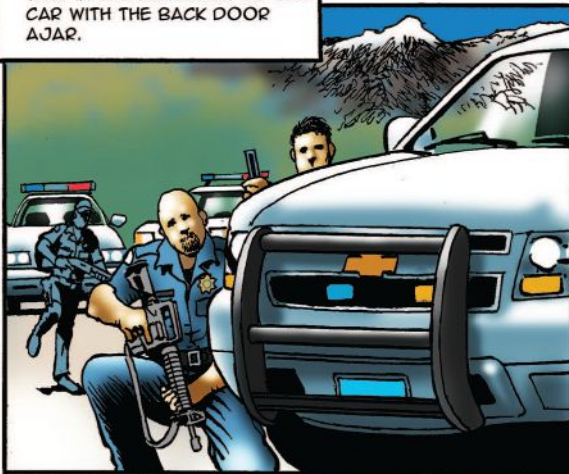
"Above and Beyond..." salutes Deputy Jeffrey Brunkow of the Boulder County, CO, Sheriff's Office

BOULDER COUNTY, COLORADO
DOUDY DRAW TRAILHEAD
APRIL 22, 2015

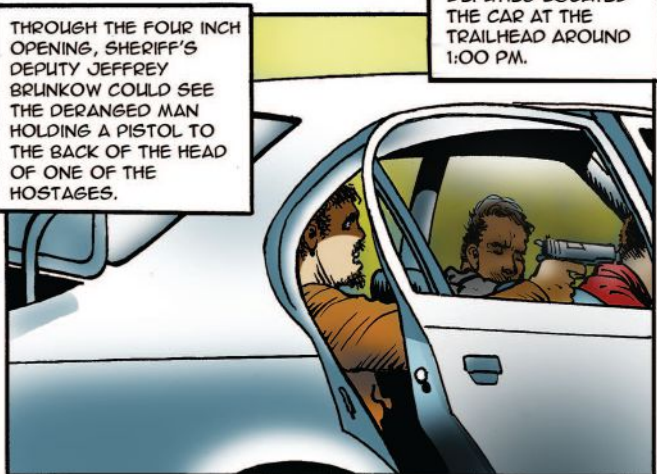


SHORTLY BEFORE NOON, POLICE GOT A CALL THAT TWO MEMBERS OF A FEUDING FAMILY LEFT WILLINGLY WITH THE ESTRANGED HUSBAND OF ONE OF THE MEN'S SISTERS IN ORDER TO DEFUSE A TENSE SITUATION. BUT, THE SITUATION SOURED AND THE TWO WERE NOW BEING HELD AGAINST THEIR WILL BY THE SUSPECT. BOULDER COUNTY SHERIFF'S DEPUTIES LOCATED THE CAR AT THE TRAILHEAD AROUND 1:00 PM.

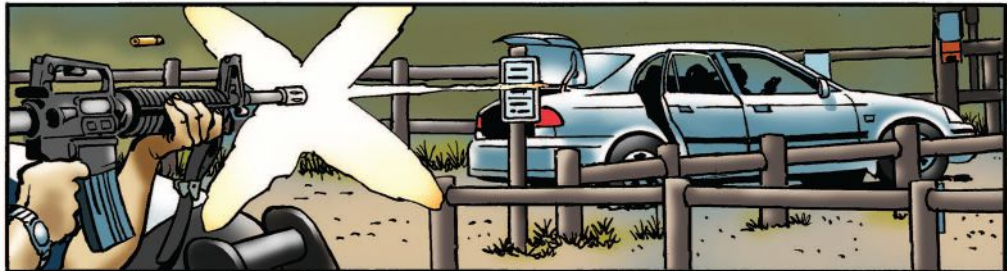
BOULDER COUNTY SHERIFF'S DEPUTIES CONFRONTED THE SUSPECT. THE KIDNAPPER WAS IN THE BACKSEAT OF THE CAR WITH THE BACK DOOR AJAR.



THROUGH THE FOUR INCH OPENING, SHERIFF'S DEPUTY JEFFREY BRUNKOW COULD SEE THE DERANGED MAN HOLDING A PISTOL TO THE BACK OF THE HEAD OF ONE OF THE HOSTAGES.



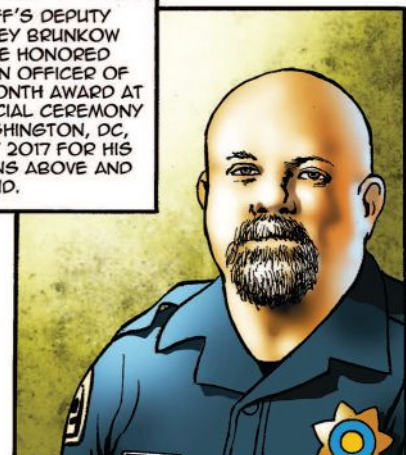
OFFICER BRUNKOW TOOK THE INITIATIVE AND LEVELED HIS DEPARTMENT ISSUE RIFLE AT THE SUSPECT! FIRING ONE ROUND THROUGH THE SMALL OPENING, THE BULLET STRUCK THE KIDNAPPER IN THE HEAD, KILLING HIM INSTANTLY!



LATER, BOULDER COUNTY SHERIFF JOE PELLE SAID, "THE SUSPECT HAD JUST TOLD HIS BROTHER-IN-LAW (ONE OF THE HOSTAGES) TO OPEN HIS EYES AND LOOK TO THE MOUNTAINS BECAUSE IT'S THE LAST THING YOU'RE EVER GONNA SEE. THAT SHOT SAVED THEIR LIVES."



SHERIFF'S DEPUTY JEFFREY BRUNKOW WILL BE HONORED WITH AN OFFICER OF THE MONTH AWARD AT A SPECIAL CEREMONY IN WASHINGTON, DC, IN MAY 2017 FOR HIS ACTIONS ABOVE AND BEYOND.



THE END

2015 NRA Law Enforcement Officer of the Year

The National Rifle Association honors Officer Marcus Pesquera as the NRA Law Enforcement Officer of the Year for showing valor and heroism in his quick, life-saving action during a gunfight that severely wounded his field training officer, Gabriel Garcia, in August 2014.

Around 2 a.m. on August 22, Field Training Officer Gabriel Garcia of the San Bernardino California Police Department and his trainee, Officer Marcus Pesquera, were on patrol together, checking some high-crime areas. At the time, Field Training Officer Garcia was a six-year veteran of the department, and Officer Pesquera had only recently graduated from the police academy and been in training for seven weeks.

Turning down a remote unpaved road, the officers came upon a group of people standing around a vehicle with its hood up and its doors open. Due to a recent spate of stolen vehicles and other serious crimes in the area, the officers exited their vehicle and approached the subjects on foot.

One of the subjects they were about to encounter was a documented gang member with a lengthy and violent criminal past that should have kept him off the streets. The officers had no way of knowing of his violent past, or that he was wanted.

The subjects were standing apart, so the officers moved away from each other by several feet to maintain a tactical advantage, with each officer maintaining visual contact of different subjects. Officer Pesquera then heard Officer Garcia say words to the effect of "come over here" and "let me see your hands," which was answered by immediate gunfire.

Officer Pesquera did not know that Officer Garcia had been gravely wounded by the gunman's fire. Despite his limited patrol experience, Officer Pesquera reverted to his training, drew his handgun as rounds were being fired at him while dropping to the ground to get to cover, and began returning fire as dozens of rounds were exchanged.

During a slight lull, Officer Pesquera yelled to check on his partner. After getting no response, he left his position of cover to try to find him. Officer Pesquera found his partner shot in the head, not moving, and unresponsive. He then radioed the communications center that his partner was down and needed immediate medical assistance and that he was engaged in a gunfight.

Seconds later, another volley of 20 to 30 rounds was exchanged between Officer Pesquera and the gunman. The gunfight lasted for over a full minute before Officer Pesquera's rounds neutralized the shooter, ending the deadly assault and further danger to Officer Garcia, bystanders, responding officers, and medical rescue members.

Officer Pesquera's courage under fire and heroic actions allowed immediate response by medical personnel to reach Officer Garcia and begin life-saving measures. Officer Garcia was rushed to a local hospital, where he received emergency medical treatment for serious head and chest injuries. He was placed into a medically induced coma in an effort to save his life. Since then, thanks to the actions of Officer Pesquera, Officer Garcia continues to fight towards full recovery.

Officer Pesquera's heroic actions under the most stressful and dangerous circumstances are a credit to himself, his department, and the community he serves. They are in keeping with the highest traditions of law enforcement. The National Rifle Association recognizes Officer Marcus Pesquera of the San Bernardino California Police Department for his valorous actions by naming him the 2015 NRA Law Enforcement Officer of the Year.



Officer Marcus Pesquera
San Bernardino California
Police Department

"It is with our greatest pleasure to honor Officer Pesquera's courage, bravery, and quick thinking as the NRA Officer of the Year," said NRA President Allan D. Cors. "His heroic actions ended a deadly assault and allowed first responders to safely and quickly reach Officer Garcia to perform life-saving measures."



Scan this code with your smartphone or tablet to get more information about the NRA Law Enforcement Officer of the Year recognition.

Forms for nominating candidates for the NRA Law Enforcement Officer of the Year Award may be downloaded at <http://le.nra.org/documents/pdf/law/leoy.pdf>.

For more information about NRA's Law Enforcement Officer of the Year Award and its Law Enforcement Division, call (703) 267-1632 or send an e-mail to LE@nrahq.org.

Circle 4043 for More Information



Body Armor Update: 2016

The 23rd Annual Report on the Latest
Advances in Ballistic Armor Technology and Design

Rebecca Waters

“During the past three decades, ballistic-resistant soft body armor has saved the lives of more than 3,000 police officers,” making it critical safety equipment for law enforcement, the National Institute of Justice (NIJ) reports. Ballistic armor technology is constantly changing: incorporating new materials, improving performance and enhancing wearability. This article will provide some background to help you make the right body armor choices. We’ll end with a look at what the future holds.

The past year has seen further advances in ballistic armor performance.

New fabrics have allowed for the development of “lighter weight, stronger and moisture-resistant tactical systems,” says Michael Foreman, EVP of International Business Development, Federal Sales and Marketing, Point Blank Enterprises.

While advances in the industry have been modest this year, Georg Olsen, Sales Manager at U.S. Armor Corporation, has noticed a worrying trend. As business is slowing in the military market, several manufacturers have begun to market their military body armor products in the law enforcement space. This presents several problems, Olsen says. “First, they

are presenting products designed for foreign military operations to be used for domestic law enforcement operations and the two are not at all the same, particularly in the areas of environment, execution and final objective. Second, there is currently a major public opinion pushback regarding the ‘militarization’ of American law enforcement with significant pressure being applied to law enforcement administrators from several sources to reverse this trend. As a result, agency administrators are very image conscious and reluctant to fund the acquisition of any tactical equipment, regardless of the need.”

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What to Look for in a Body Armor Purchase

"Ballistic-resistant body armor protects against bullet penetrations and the blunt trauma associated with bullet impacts. These vests include soft body armor which protects against handgun bullets and less flexible tactical armor composed of soft and hard components which protect against rifle bullets.... Law enforcement personnel must keep in mind that armor is categorized and rated for different threat levels. They should select the appropriate level of protection based on an officer's role. SWAT members, for example, might need body armor which offers a higher level of protection than the body armor worn for regular duty," the NIJ notes. As the level of protection increases, the comfort level generally decreases, so departments should be realistic about the threats officers in their jurisdictions are likely to face.

"Quality, comfort, value and longevity of [the] manufacturer," are the key features to look for in a body armor purchase, Olsen says. "This is a product where tried-and-true is many times better than shiny and new." When choosing a manufacturer, ask: Who are some of their customers you might know? Do they offer a wide selection of models and threat level choices? In tactical armor, are they willing to customize the armor to your requirements?



When being fitted for a vest, it's a good idea to take and hold a deep breath.

"The ability of the vest to stop the agency's duty round, as well as ammunition known to exist in the region," is key to any body armor purchase, Foreman says.

Proper Fit

Proper measurement when fitting body armor is necessary to obtain sufficient coverage of the torso and vital organs while allowing the range of motion required for officer operations. To this end,

the NIJ released the ASTM E3003, *Standard Practice for Body Armor Wearer Measurement and Fitting of Armor* standard for assessing the proper measurement and fit of ballistic protective equipment.

"When a person is being fitted for their vest, they need to take and hold a deep breath. This is the gap wanted between the body and the armor panels. The gap will help in reducing trauma should a bullet be experienced. It also makes it easier for officers to run and fight," writes Scott Burton in "25 Things People Didn't Know About Bulletproof Vests" on BodyArmorNews.com. If you gain or lose five to ten percent of your body weight, you should be fitted for a new vest, he adds.

"Insist on true custom measuring where the vest is constructed specifically for you, not just something in stock off of the shelf...you will be wearing this for five years!" Olsen says. "You should also go with a brand which offers a 60 day fit guarantee so that you can get some 'mileage' on your vest as you evaluate the fit."

Female Fit

Female officers will require body armor which can accommodate their unique features. "Females are not small males," said Beverly Kimball, Project Engineer for female U.S. Army aviation combat uniforms. "We have specific proportions which require designs for fit and function

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for uniforms as well as equipment.”

In 2007, the NIJ ruled that women’s vests must be designed with female body shapes in mind, including overlapping layers to provide adequate protection, Scott Burton wrote in “A Call for Female Friendly Body Armor.” “Women must have additional trauma security for their chest and, for that, their vests should have real bra-style cups...similar to what’s on a one-piece swimming suit,” he added.

Material Innovations

Under a U.S. Army Program Executive Office – Soldier Protection and Individual Equipment Project contract, DuPont™ Protection Solutions is developing the next generation of Tensylon® solid-state extruded, ultrahigh molecular-weight polyethylene films for use in hard armor plates, shields and other protective equipment. The current research will focus on improved performance in law enforcement and military applications.

In other news, researchers at North Carolina State University have explored the bulletproof properties of metal foam. The foam is a lightweight material which causes projectiles to shatter into dust on contact. In a North Carolina test, a 7.62 x 63 millimeter M2 armor piercing projectile fired based on NIJ armor standards was stopped with a backface signature of less than eight millimeters; the NIJ standard allows up to 44 millimeters (<http://tinyurl.com/gma2t6e>).

Scientists at the Harvard Materials Research Science and Engineering

Center are using a process similar to making cotton candy to produce nano-fibers which could be instrumental in creating lighter bulletproof vests (<http://tinyurl.com/jrojbjc>)

New Ballistic Protection Products



The new RISE™ vest, from Angel Armor, offers a number of unique features.

Angel Armor

(www.angelarmor.com)

RISE™ is a new concealable armor system engineered for safety, comfort and versatility. RISE enables you to elevate your protection with the tiered Truth

SNAP™ Plate System – new trauma plates which provide rifle threat protection integrated in an ultralightweight package. Unique features include an advanced Ballistic Suspension System and a proprietary QuadCore Attachment System™ for a repeatable fit; low profile laser cut panels for PALS/MOLLE compatible attachments; an integrated Truth SNAP plate system for enhanced protection against 5.56x45mm FMJ, 7.62x39mm FMJ (AK-47) and other special threats; and seven points of adjustment ensure a secure fit. RISE is designed to protect against NIJ 0101.06 Level II and Level IIIA standards and numerous special threats and is available for both male and female officers.

Armor Express

(www.armorexpress.com)

Quantum™ soft armor brings .06 stopping power ballistics at a competitive cost. Made of woven and laminated Twaron® microfilament, the Quantum ballistic package is capable of stopping the 5.7 x 28 sporting round (both II and IIIA) and the 5.7 x 28 lead-free and can include special threat capabilities.

Improvements incorporated into the LightHawk XT 2.0™ have increased the versatility of this full coverage vest. The fully scalable armor system offers a multitude of features designed to maximize maneuverability without sacrificing coverage.

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The TORC, from Armor Express, provides scalability based on need.

tactical teams will all benefit from the armor scalability based on the need of the officer. Designed with utility in mind, the TORC offers plate carrier simplicity with options for ballistic protection add-ons.



A new ruggedized LED lighting system is shown mounted on the rough operations cover of an MRAPS-IV ballistic shield.

Baker Ballistics
(www.bakerballistics.com)

Baker Ballistics have updated the optional LED Light System for their

MRAPS shield with aircraft-grade aluminum housings and a clear ballistic cover which protects the ten LEDs from low velocity training projectiles. The LED light array has high/low light output levels, as well as a strobe function.

The MRAPS ballistic shield models protect against centerfire rifle caliber threats while enabling users to accurately fire long guns or handguns while on the move. The armor components are constructed utilizing a proprietary military-grade polyethylene composite armor matrix.

Blauer Manufacturing Co., Inc.
(www.blauer.com/armorskin)

Several key performance improvements have been made across Blauer's entire ArmorSkin® product category, including several enhancements specifically suggested by individual officers. First, all ArmorSkin carriers now feature an easy loading zipper at the bottom of the mesh interlining inside, making it simple to get your existing body armor carrier in and out. Second, the two-way zipper featured on both sides of earlier

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ArmorSkin models has now been replaced with a strong one-way YKK® lock zipper for enhanced security and ease of wear.



The BodyShield™ External Vest Carrier accommodates on-body camera and communication technology.

Elbeco Incorporated
(www.elbeco.com)

The BodyShield™ External Vest Carrier accommodates fully integrated smart on-body camera and communication

technology, and also allows the ballistic vest to be worn outside the uniform, while remaining virtually undetectable to the eye. Made of 600 denier Syntex polyester fabric for stain and liquid repellency, it also includes a front to back, side FastLock Closure System for ease of donning and doffing, while preventing the vest from riding up or being pulled apart. The concealable carrier is designed to house any manufacturer's ballistic vest.

GH Armor Systems
(www.gharmorsystems.com)

The Orion Concealable Carrier (OCC) offers lightweight fabrics with improved comfort. Some of its features include spacer mesh at the shoulders for ventilation and comfort; a hidden shoulder strap pass-through channel to keep elastic off the shoulders; and a rear access apron for discrete strap adjustment and trauma plate insertion. The OCC is constructed out of a combination of materials. The nylon hexagonal ripstop is sleek and durable, reducing friction between fabrics. The dynamic knit fabric on the inner lining is moisture wicking, antimicrobial and



The new Orion Concealable Carrier incorporates a number of materials.

odor-resistant. This same fabric is also used on stress points, like under the arm, for flexibility.

Instant Armor, Inc.
(www.instantarmor.com)

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The Spartan Shield™ can be deployed in under five seconds.

which is deployed in under five seconds. The Spartan Shield is designed to utilize all of the existing attachment straps

which made the Instant Armor Tactical Blanket Systems™ so versatile. It is available in both rifle and handgun versions. Meeting or exceeding NIJ Threat Level III (rifle) or IIIA (handgun), the Spartan Shield defeats high-powered rifle rounds and gives you 19" wide by 34" tall protection when deployed. It folds down to 19" by 19" and weighs only 16.3 pounds.

Phalanx Defense Systems, LLC
(www.rapiddeploymentarmor.com)

The patented Rapid Deployment Armor Systems transform ordinary briefcases, binders or carry bags into fully functional body armor. Available in three versions for a wide variety of users, the AGENT is totally discreet and is ideal for personal security details, school resource officers and off-duty law enforcement. It transforms from an inconspicuous soft-sided briefcase to a full-fledged plate carrier; front and back internal pockets hold both hard and soft armor plates up to 10" x 12". With MOLLE coverage and adjustable shoulder and waist straps, the



The AGENT transforms from a briefcase into a full-fledged plate carrier.

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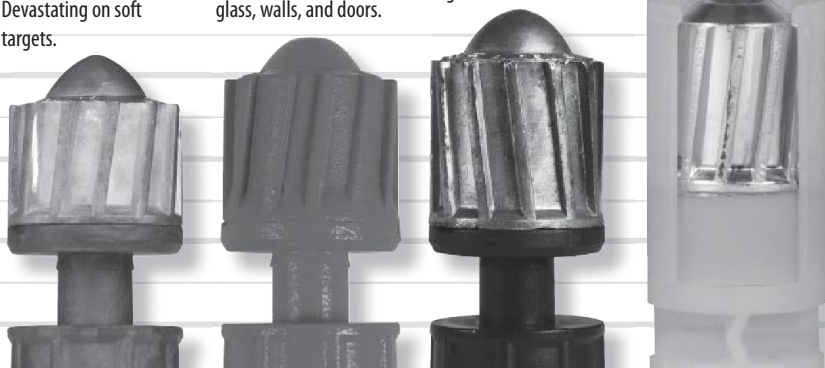
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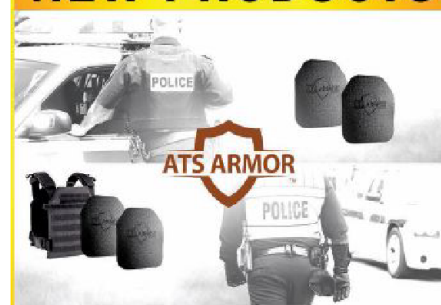
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The new Alpha Elite™ Black concealable body armor utilizes the latest generation of Dyneema® Force Multiplier Technology by DSM

**Point Blank Enterprises
(www.pointblankenterprises.com)**

The latest Alpha Elite™ Black concealable body armor is an extension of Point Blank Enterprises' Alpha Elite Series

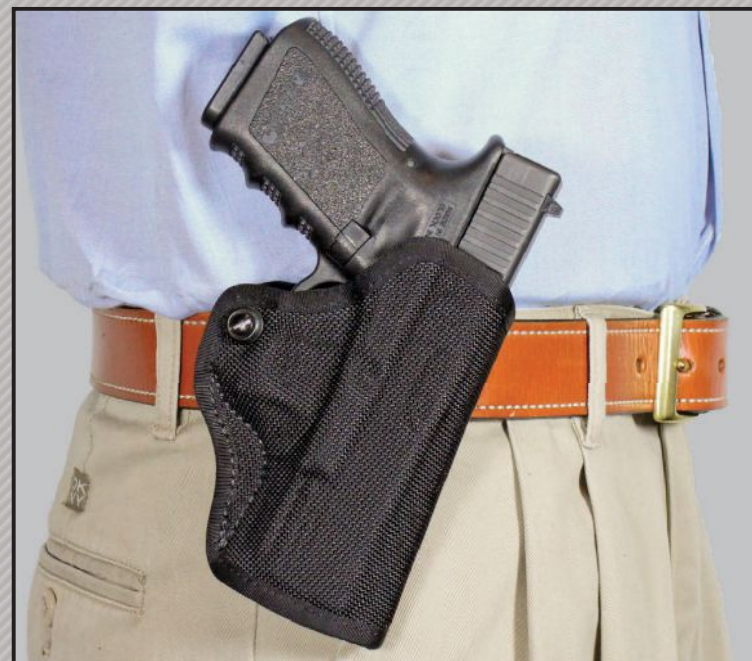
which offers lightweight, high performing NIJ .06 IIIA ballistic systems. Building on the previous Alpha Elite design, the Alpha Elite Black is even lighter (an additional 17 percent weight reduction) while still providing the same level of protection. With the latest generation of Dyneema® Force Multiplier Technology by DSM, Alpha Elite Black weighs a mere .79 psf, with 9mm V-50s greater than 2,000 fps. The Alpha Elite Black was developed to meet and exceed global standards for law enforcement, military and US Special Operations forces. It is designed to defeat high velocity handgun rounds and fragmentation with minimal backface deformation. Additionally, it offers reliable multihit protection.

The ARMIS with Halo Buckle System is designed to be highly scalable and comes in the form of a side opening carrier which allows tactical units the flexibility to configure the ballistic system to meet mission specific needs. This includes the capability to release the complete vest in one quick motion and select



The new ARMIS with its Halo Buckle System offers the capability to release the complete vest in one quick motion.

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The SOHPC GEN III includes optional side plate pouches.

The SOHPC GEN III is Point Blank Enterprises' latest hard plate carrier. It is designed to provide comfort, protection and flexibility to meet the needs of every mission. The latest design adds an adjustable cummerbund and optional side plate pouches for hard armor plates. SOHPC GEN III ballistics include a Stand



The new Executive Ballistic Briefcase has been created for dignitary protection use.

Alone Level III Plate, a Stand Alone Level III+ Plate, a Stand Alone Level IV Plate, and an ICW III/IV Plate.

The Trifecta X is a high performance shield which has been both internally and externally certified to ballistic performance levels which meet NIJ Level III Plus protection requirements. Key components offered on the interior of the shield include a stationary handle, a thick high density foam pad and a unique hook/loop fastener forearm strap attachment system.

The ASPIS X Shield weighs a mere 17 pounds (with a light and viewport – 17.9 lbs.), and offers advanced maneu-



Point Blank's Trifecta X Shield provides a number of key components.

verability for handgun and long gun deployment. Available in Level III protection, the ASPIS X is special threats tested to rounds including 7.62x51mm, 149-grain M80 FMJ; 7.62x39mm, 123-grain PS Ball; and 5.56x45mm, 55-grain M193 Ball.

The Executive Ballistic Briefcase instantly converts from a lightweight, discreet briefcase to a fold-out ballistic shield with additional "special threats" protection

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the ASPIS X is special threats tested to rounds including 7.62x51mm, 149-grain M80 FMJ; 7.62x39mm, 123-grain PS Ball; and 5.56x45mm, 55-grain M193 Ball.

The Executive Ballistic Briefcase instantly converts from a lightweight, discreet briefcase to a fold-out ballistic shield with additional "special threats" protection (by inserting SPEED plates in the plate pockets). Within seconds, this convertible solution can provide immediate protective coverage against fragmentation and bullets and is ideally suited for dignitary protection details, private security and other high threat environments. The Executive Ballistic Briefcase goes beyond traditional ballistic blankets in that it offers instant adaptability with maximum functionality in one, easy to deploy system. Folded, the briefcase measures 20" x 13.5" and, unfolded, 40" x 20".

Safariland®

(www.safariland.com)

The new Safariland Armor collection was introduced in early 2016 as a complete line of ballistic panels and carriers. The collection is comprised of five distinct



The Safariland® Armor collection is a completely new line of ballistic panels and carriers.

panel designs which work universally with all the carrier models. The new Safariland Armor carriers introduce a system customizable for the individual officer, interchanging with every ballistic panel and carrier. The concealable Covert carriers

employ ergonomic designs, lightweight fabrics and contoured stitch lines and feature laminated four-way stretch fabric and a cooling spacer mesh liner. The Overt carrier options – worn externally – feature traditional and load bearing styles. The V1 and U1 Overt carrier models encompass a hidden gun pocket, VELCRO® adjustable shoulders and ribbed channel spacer cooling mesh. Each of these models is offered in eight front or side opening options for individual preference.

A unique product within Safariland Armor's product line, the HyperX™ is an integrated system consisting of a performance base layer T-shirt made of stretch fabric which moves and flexes and a ballistic carrier – both have soft armor plate pockets for enhanced coverage and protection.

U.S. Armor Corp.

(www.usarmor.com)

U.S. Armor's Lightweight Anti-Rifle Plates are high performance plates with multihit capacity at half the weight of traditional ceramic plates. A dual curved surface provides a torso shaped fit for better

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New Lightweight Anti-Rifle Plates from U.S. Armor

comfort. The plates are durable enough to withstand drops or impact during transport and storage, yet are positively buoyant allowing them to float in water.

Velocity Systems (www.velsyst.com)

The Mayflower RC Law Enforcement Plate Carrier (LEPC) is made of 500 denier nylon CORDURA and was designed with limited MOLLE and elastic cummerbunds for a sleek and clean look. What makes this system modular is the optional and removable front MOLLE flap which allows the easy addition of optional quarter flaps. The quarter flaps house soft or hard armor and allow the end user to don/doff from that single point without having to lift the front flap.

The Velocity Systems STOP Vest™ was designed to address shortcomings in typical entry vest carriers while still having a traditional full cut, meeting the needs of law enforcement special tactics teams. The STOP Vest holds ergonomic STOP soft armor inserts and a variety of hard armor plates. Narrowed shoulder straps and narrower shoulder soft armor coverage allow the wearer better arm movement. The soft armor is cut larger under the armpit and on the sides to allow better side protection while maximizing side



Velocity Systems is offering a new plate carrier system – the LEPC.

to side mobility. Entry is via quarter flaps, allowing the wearer to don and doff from the ten o'clock and two o'clock positions, keeping the front of the system flap-free.

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What's Next?

What does the future of body armor hold? "I think that companies will continue to work on developing body armor solutions which are thinner, lighter and more flexible than current products," Olsen says. "This has always been the goal of the industry, although I am not expecting anything 'revolutionary,' since current products have made such great advances in these areas already. Absent some new,

as yet undiscovered, 'miracle material,' we are now already very close to that wall which separates comfort from performance and I don't believe that there's a lot more room for that to go. I also think that there will be more comfort advances as the industry continues to explore new fabrics for the outer vest carriers which will provide better heat, perspiration and bacterial management for the wearer."

"Breakthroughs in stab technology will

allow us to offer significantly lighter weight ballistic/stab combo solutions," Foreman predicts. We'll see a "new era to offer multithreat options." First responder requirements will also change to include "improved options for rifle protection including lighter weight rifle protection and rapid uparmoring capabilities for first responders," he adds. **P&SN**

Formerly the Editor-in-Chief for Forensic Magazine, Rebecca Waters is a freelance writer and editor.

NEWS

Law Enforcement Cyber Center Resources

The Law Enforcement Cyber Center (LECC) is designed to assist police chiefs, sheriffs, commanders, patrol officers, digital forensic investigators, detectives, and prosecutors who are investigating and preventing crimes which involve technology. The LECC also directs visitors to strategic partners who provide training, technical assistance and access to critical information. The site includes a multitude of cyber-related resources, including an Internet of Things Infographic which may help users understand the potential electronic devices which may become digital evidence; cybercrime community awareness and prevention training modules; and a comprehensive database which allows users to conduct a search for local, regional and national organizations which offer cyber-related services to assist law enforcement and prosecutors.

The LECC Web site, including the resources mentioned above, is available at <http://www.iacpcybercenter.org>.



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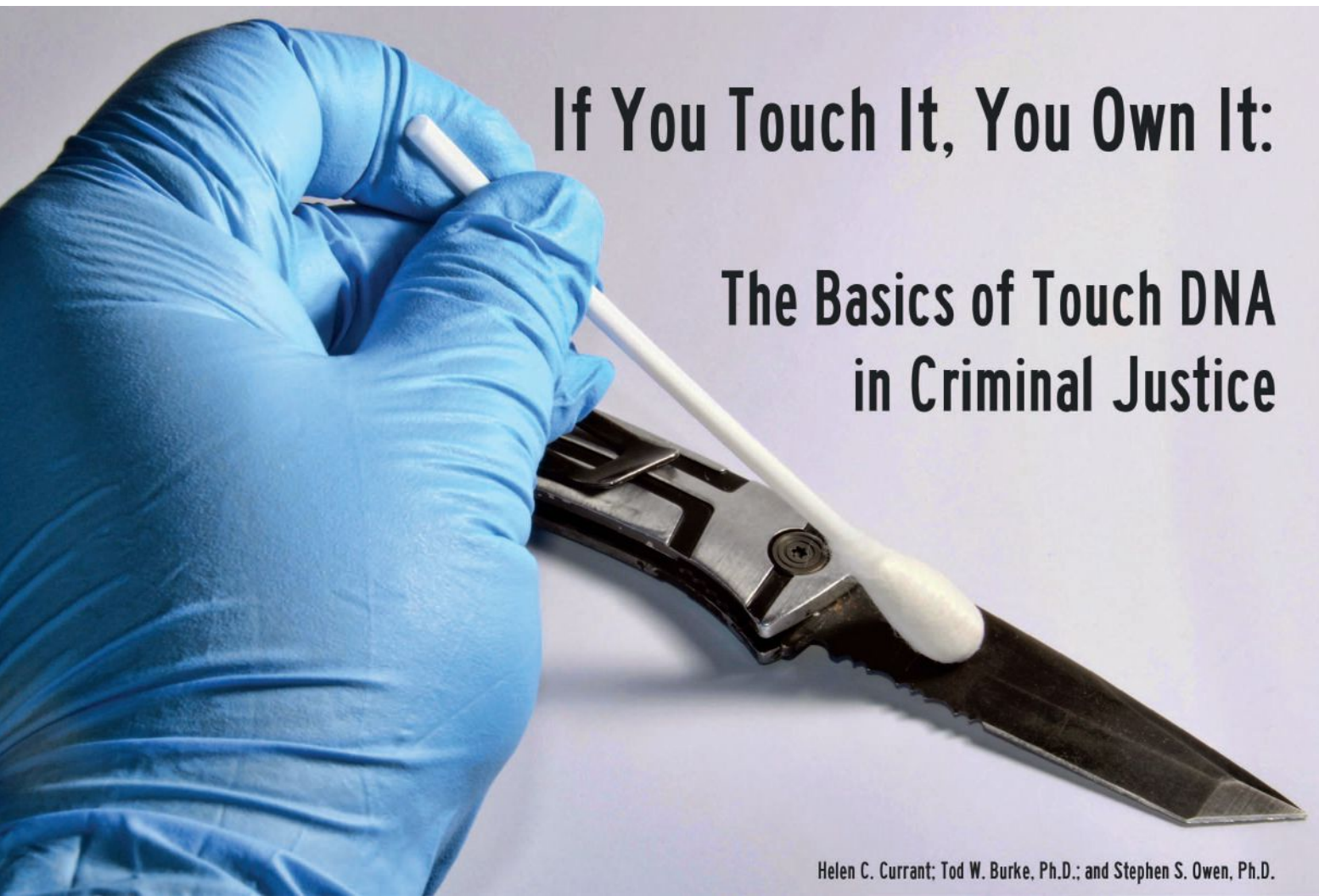
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If You Touch It, You Own It:

The Basics of Touch DNA in Criminal Justice

Helen C. Currant; Tod W. Burke, Ph.D.; and Stephen S. Owen, Ph.D.

In 1987, the body of 37-year-old Peggy Hettrick was discovered lying in a field in Fort Collins, Colorado. Circumstantial evidence led police to suspect 15-year-old Timothy Masters, a 120 pound high school sophomore. However, since no direct evidence was found linking Masters to the crime, he was not initially charged. Ten years later, the local police department enlisted the help of a forensic psychologist who, based in part on drawings and writings by Masters, prepared a report implicating him in Hettrick's murder. Masters was tried for first degree murder and found guilty by the jury. In 2007, pursuant to an appeal by the defense counsel, Hettrick's clothes were tested for "touch DNA." The genetic material found on the clothing did not belong to Masters. This new evidence exonerated Masters and he was released from prison in 2008.

The following article will focus upon touch DNA, including its benefits, awareness of possibilities for contamination and secondary transfer, policy implications, and recommendations for criminal justice personnel.

What is Touch DNA?

Touch DNA, or trace DNA, is the genetic material which is recovered from epithelial skin cells left behind when a person comes into contact with an object. The development of new and innovative technologies has allowed for a complete

genetic profile to be established from only seven or eight cells compared to the larger amount of bodily fluid or other biological materials which were previously needed. While the discovery of DNA dates back to the 19th century, it has only been since the early 2000s that technological advances have allowed investigators to effectively use touch DNA.

Collecting Touch DNA

The process of collecting touch DNA involves swabbing an item or area with a sterile cotton applicator which has been moistened with distilled water or a phosphate saline solution. Certain objects, such as those with rough surfaces or those which have been protected from the elements, have the potential to yield a greater amount of genetic material. Conversely, it may be more difficult to recover touch DNA from objects with smooth exteriors or which have been left outside, as well as items handled multiple times or upon which force, such as a struggle or altercation, has been exerted. A study on the stability of touch DNA was conducted in 2009 and showed that, in a controlled environment, touch DNA can be recovered from an object even six weeks



This cap, discarded in the trash by a murder suspect, retained enough touch DNA to be used as evidence at trial.

after contact. It is important to take into account that not every contact leaves enough genetic material to yield a DNA profile. Factors such as perspiration levels, personal habits and the amount of skin cells a person naturally sheds may affect the quantity of touch DNA which can be collected.

Advantages – Solving Cases

Advances in touch DNA recovery and processing have significantly aided the criminal justice system and criminal investigations by increasing the capability of solving cases and reviewing older ones. Since smaller amounts of genetic material are needed to establish a profile from touch DNA, requests for touch DNA analysis are on the rise. For instance, the Harris County Institute of Forensic Sciences Laboratory for DNA testing in Texas received over five times as many requests for touch DNA testing in 2015 as compared to 2008. The ability to potentially solve additional cases with touch DNA has also been facilitated by the use of DNA databases such as CODIS (Combined DNA Index System) which is a system shared by local, state and federal agencies which enables electronic DNA matches to be made with previously convicted offenders. Additionally, new processes called Rapid DNA Analysis can yield a DNA profile from a buccal swab in under two hours.

Concerns – Secondary Transfer of Touch DNA

With the increased ability to test smaller samples of DNA, the likelihood of sample contamination and DNA mixtures increases. Secondary transfer of touch DNA has recently become a concern as it can materially affect the outcome of criminal investigations and court cases. Secondary DNA transfer occurs when one person comes into contact with another individual and then transfers that individual's DNA onto an object.

An example of this phenomenon is the case of the murder of Raveesh Kumra. In 2013, the California millionaire was asphyxiated during the burglary of his home. DNA taken from the victim's fingernails was a positive match to the DNA of a man named Lukis Anderson. However, at the time of the homicide, Anderson was unconscious at a local hospital. Further examination of the recovered DNA was conducted, leading to the determination that it was most likely inadvertently transferred through the paramedics who had contact with both persons, first transporting Anderson to the hospital and then responding to Kumra's asphyxiation.

Researchers at the University of Indianapolis conducted an experiment

involving a two minute handshake between two people followed by the handling of a knife. In 85 percent of the samples collected from the knife, the DNA of the person who never touched the knife, but gave a handshake to the person who did, was able to be identified. Additionally, in one fifth of the samples, the person who gave the handshake, rather than touched the weapon, was mistakenly considered to be the sole contributor of the

DNA. This introduces the possibility of an individual's DNA being recovered from a crime scene at which they were not present and, by extension, that individual being charged with a crime they did not commit. The likelihood of secondary DNA transfer could be reduced if crime scene technicians are thoroughly educated and trained on when, how and where to collect touch DNA and how to prevent, or minimize, cross-contamination, and if

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investigators are trained on the interpretation of touch DNA results and the importance of being vigilant for secondary transfer.

A study conducted in 2015, demonstrating the possibility of secondary DNA transfer from fingerprint brushes, further serves to emphasize the challenges involved. The study revealed that, when dusting for prints, touch DNA can be collected on the fingerprint brush and then transferred to another object or to the crime scene. This discovery not only underlies the need for thorough training, but also furthers the importance of uniform regulations and procedures to minimize evidence contamination.

Policy

Implications/Recommendations for First Responders

Special attention should be paid to the possible implications of secondary DNA transfer in regards to crime scene and lab contaminations. Several measures can be taken by first responders and law enforcement personnel to decrease the possibility of evidence contamination. These include detailed crime scene logs limiting the number of personnel who enter the area and documenting a strict chain of custody. Personal Protective Equipment (PPE) should always be worn and its type documented in the crime scene report. Frequent and recurring training should be provided to all law enforcement officers on the subjects of crime scene management, proper documentation and handling of evidence.

Laboratories

In cases involving contamination, elimination databases could potentially be used to exclude the genetic material of



New processes can yield a DNA profile in under two hours.

first responders, crime scene technicians, forensic scientists, and others who handle evidence. However, this idea might incite controversy since it could infringe the rights to privacy of those whose genetic material is entered into the system. Furthermore, the extra precautionary measures employed when collecting and analyzing touch DNA and the steps taken to minimize the contamination of evidence can be time-consuming, leading to an increase in the already high number of backlogged DNA samples. For instance, in 2011, according to the National Institute of Justice, there were over 91,000 untested DNA samples.

Cold and Existing Court Cases

If DNA can be recovered from items long after initial contact, then perhaps the possibility of reevaluating cold cases is more available than ever before. Take, for example, the case of 17-year-old Krystal Lynn Beslanowitch who was murdered in 1995. With no concrete evidence to rely upon at the time, the case went cold. However, 18 years later, touch DNA was suc-

cessfully recovered from the rock used to kill Beslanowitch which led to the arrest of a suspect in the previously cold case. A key to this case, and similar cases, is maintenance and preservation of the full evidence after trial.

It is also possible, as illustrated in the case at the beginning of this article, for touch DNA to be utilized in post-conviction appeals. It would likely fall to each jurisdiction's appellate courts or legislature to make decisions and establish processes related to the use of touch DNA in such legal proceedings.

DNA in Court

DNA evidence is not infallible. If genetic material is introduced into a case during trial, juries should be educated by a trained forensic scientist about the possibility of secondary transfer and DNA contamination. Prosecutors should be aware of current research involving touch DNA as the defense may question its handling and methods of analysis. Therefore, it is imperative that evidence is properly collected, analyzed and interpreted, and that the chain of custody correctly maintained.

Conclusion

Touch DNA continues to have a remarkable impact on the criminal justice system. The low number of skin cells necessary to form a DNA profile enables a higher number of cases to be solved from genetic material. At the same time, it is important to recognize that secondary transfer of touch DNA and evidence contamination can greatly influence the outcome of a case; therefore, it is essential that proper training be provided to all parties concerned and supplemental precautions be implemented. While DNA and touch DNA may prove invaluable as evidence, it must be used with caution and care to allow for a fair and proper criminal justice process. **P&SN**

Ms. Currant is an undergraduate student at Radford University in Radford, Virginia.

Dr. Burke, a former police officer, serves as the associate dean for the College of Humanities and Behavioral Sciences and as a professor of criminal justice at Radford University in Radford, Virginia.

Dr. Owen is a professor and chair of the Department of Criminal Justice at Radford University in Radford, Virginia.

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Tactical First Aid for Police Officers

Photo courtesy of North American Rescue

Rebecca Waters

Any tactical first aid kit should include combat vetted and tested treatments for the most common and deadly types of injuries found in a hazardous environment.

No widely accepted, specialized medical training exists for police officers confronted with medical emergencies while under conditions of active threat,” researchers noted in “Police officer response to the injured officer: a survey-based analysis of medical care decisions,” published in *Prehospital and Disaster Medicine* in 2007. This training shortfall has recently begun to be addressed as Trauma Combat Casualty Care (TCCC) guidelines established to manage the most common causes of death on the battlefield – hemorrhage from extremity wounds, tension pneumothorax and airway problems – are being adapted for law enforcement. But, while some of the greatest advances in field medicine were developed on the battlefield, it is important to note the differences between military and law enforcement situations. “Domestic law en-

forcement personnel and civilians typically have greater access to rapid medical assistance and trauma centers than military personnel engaged in combat operations. Unlike combat, the most common weapons used to attack officers or civilians are usually low velocity weapons such as handguns, stabbing instruments, blunt objects or personal weapons (hands, feet, etc.),” Lt Eric Dickinson wrote in *The Street Officer’s Guide to Emergency Medical Tactics*. “Law enforcement officers performing medical skills must often operate in an environment controlled and restricted by civilian physicians, civilian EMS personnel, state medical protocols and state laws,” he adds.

Better Response to an Increasing Problem

In response to mass casualty events, including the Sandy Hook Elementary School shootings in 2012 and the Boston

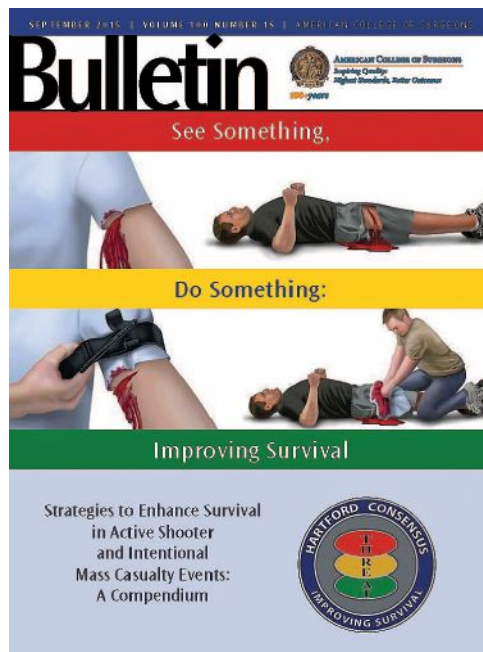
Marathon bombing in 2013, the American College of Surgeons met with first responders from law enforcement, fire departments, emergency medical services, and the military to discuss how to respond to these events more effectively. Their findings, published as the Hartford Consensus and last updated in 2015, focused on extremity wounds and the use of kits containing tourniquets and hemostatic dressings, as well as better coordination between law enforcement and medical teams in the triage of their efforts. The groups proposed a simple acronym to help educate first responders on the proper aid in a mass casualty event: **THREAT** (**T**hreat suppression, **H**emorrhage control, **R**apid **E**xtrication to safety, **A**ssessment by medical providers, and **T**ransport to definitive care).

“This is not to say that the intent is to turn police officers into EMTs. No, medical

first responders are highly trained, experienced and invaluable medical professionals who can respond to a multitude of emergency situations. But, what protocols like the Hartford Consensus do is recognize that first responders – like the police or like engaged civilians – can, with enough equipment, keep those with life threatening injuries alive until the medical first responders arrive,” says Paul X. Harder, JD, President of H&H Medical Corporation.

Tourniquets

Industry professionals echo the Hartford Consensus’ focus on tourniquets to improve downed officer survival. “The most immediate cause of preventable death is arterial hemorrhaging from the extremity. A person can lose a fatal amount of blood from an artery in as little as three to five minutes,” says Marc Fridley, Sales & Training, Tactical Medical Solutions. “Tourniquets are widely accepted as the greatest innovation to trauma care after a penetrating injury,” says S. Brock Blankenship, MD, President of TEMS Solutions. “It is widely accepted that the best tourniquet is the one you have on you when needed. For this reason, we recommend all officers train on and



The September 2015 American College of Surgeons Bulletin is a downloadable 92 page PDF which illustrates best practices; equipment needs and benefits; and tactical approaches most beneficial to EMS, fire and law enforcement agencies.

carry [on their person] their tourniquet.”

Agencies, however, have only just begun to overcome the bias against tourniquets stemming from the dangers associated with the early tourniquets used in the 1970s. “It took several years of research, battlefield testing and the redesign and manufacture of commercially made tourniquets for acceptance to occur,” David Flory, NREMT-P, TP-C, Police Chief, Hot Springs, Arkansas, wrote in *The Police Chief* magazine. Now, tourniquets are credited with saving the lives of officers, as well as civilians, suffering from gunshot wounds, vehicle accidents and other injuries, he says. “The most significant change to first aid procedures comes as a result of the war experience in Iraq and Afghanistan,” says Peter Pons, MD, Associate Medical Director of the NAEMT Prehospital Trauma Life Support (PHTLS) Committee, and an emergency physician in Denver, Colorado. “From this protracted conflict, we have learned that the use of an approved tourniquet for hemorrhage control is, in fact, a safe procedure and that the application of direct pressure to a wound in combination with packing the wound will also stop most bleeding. These two

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2014 TEMS: SWAT-T Durability; 32,956 uses, zero unexpected device failures

2013 Military Medicine: SWAT-T vs. CAT - Safer pressures, less discomfort, more effective

2012 Journal of Special Operations Medicine: Effective in sensory deprived setting

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Photo courtesy of Tactical Medical Solutions

The best tourniquet is the one you have on you when needed.

procedures have been incorporated into the practice of many responding agencies in the past two to three years.”

Training

“Every officer needs to evaluate his/her own work environment and likely scenarios,” Dickinson writes. The training you need will depend on the types of injuries

you are most likely to encounter and the first aid gear you choose to carry. There are many venues for training on the use of first aid tools, including manufacturers’ videos, packaging instructions and hands-on training courses, Harder says. “Hands-on training is the best way to reinforce how to use these kinds of products and how to respond to medical emergencies. Frequent refresher courses help keep skills fresh to be prepared to respond to any situation.”

The Pima County Sheriff’s Department developed a program to train all street officers on how to sustain themselves or other officers in life threatening medical emergencies. Based on Tactical Combat Casualty Care (TCCC) guidelines and research from the Valor Project, the agency’s “First Five Minutes” course teaches officers scene safety, body substance isolation, medical assessment techniques, CPR, use of emergency bandages, combat gauze, Asherman Chest Seal and tourniquets, and transfer of care. All officers are issued an individual first aid kit equipped



The Pima County Sheriff’s Department developed their medical emergency training program based partially on the DOD’s TCCC guidelines.

to address the most common causes of preventable traumatic death (www.emsworld.com/article/10770951/police-first-aid).

LEFR-TCC

Law Enforcement and First Response Tactical Casualty Care teaches public safety first responders, including law enforcement officers, firefighters and other first responders, the basic medical care interventions which will help save an injured responder’s life until EMS practitioners can safely enter a tactical scene. It combines the principles of PHTLS and TCCC and meets the recommendations of the Hartford Consensus document and TECC guidelines (www.naemt.org/education/LEFR-TCC.aspx).

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ALERTT

The Advanced Law Enforcement Rapid Response Training (ALERTT) Center at Texas State University addresses the need for active shooter response training for first responders. The ALERTT Center delivers 13 grant funded first responder courses across the nation including Active Shooter Events and Response, Active Threat Integrated Response Course and Terrorism Response Tactics – First Responder Breaching (www.alerrt.org).

LEF RTP

The Law Enforcement First Responder Training Program (LEF RTP) is designed to provide topics most applicable to law enforcement officers as first responders at the state and local levels. Law enforcement officers must be trained and equipped to respond to virtually any situation, including criminal acts, terrorist attacks and other large-scale emergencies. The LEF RTP will provide training, guidelines and resources to address these, as well as other important issues

(www.fletc.gov/training-program/law-enforcement-first-responder-training-program).

First Aid Equipment

"The key to any tactical first aid kit is the ability to deal with a life threatening injury. The problem for law enforcement is carrying enough product to deal with the casualty in a pack or kit which doesn't interfere with all the other items an officer may carry. So, you look for products which are small in size, but complete, easy to use out of the package with minimal training and effective at dealing with the injury. And, the kit itself must be easy to open, organized and readily available," Harder says.

Depending on your specific location, your needs could vary. Likewise, your agency's resources and policies will dictate what type of kit may be most appropriate. Whether you choose a pre-assembled kit from a reputable manufacturer or assemble your own, you'll want to be sure to familiarize yourself with the contents and be sure to train on each piece

of equipment. While recommendations vary, most experts agree that individual first aid kits should include the following:

- TCCC approved tourniquets to treat life threatening arterial bleeding found on the arms and legs – "Tourniquets alone could save 60% of all the preventable deaths from combat trauma," Dr. Fabrice Czarnecki told *PoliceOne*. A tourniquet is the single most crucial piece of equipment to have on hand, Fridley agrees.

- Chest seals (vented or nonvented) or materials to make an occlusive seal (like petroleum gauze and two inch tape) to treat any penetrating torso injury

- Trauma or pressure dressings to treat severe venous bleeding or arterial bleeding not found on the arms or the legs – "A compression bandage should be one with a large enough pad to cover the wound, preferably one which has the pad sewn to an elastic wrap to make it easier to apply the bandage and create pressure around the wound. Most higher end bandages come with devices such as bars or cleats to force more direct pres-

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Price: \$145.70

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sure down over the wound,” Harder says.

- Hemostatic dressing or blood clotting agents – hemostatic dressings are gauzes designed to be pushed or forced into a wound where there is significant blood loss to create a clot and stop or slow the arterial bleeding. The most basic of these products is cotton gauze and there are several gauze rolls which are packed small and compact for easy carrying. Af-

ter that, there are numerous hemostatic products – some with chemicals and some without – which have proven effectiveness in stopping blood loss.

- Quality latex-free gloves
- Trauma shears can cut away clothing, as well as improvised bandages, slings, etc.
- A simple airway device, like a CPR face shield or, more preferably, a

NasoPharyngeal Airway (NPA) – if training on these devices is not available, or within the agencies medical guidelines, some basic training in the use of patient positioning to promote the opening of the airway, specifically the recovery position, is important.

“If carrying [an individual first aid kit] on your person is not possible or feasible, consider carrying multiple small blowout kits strategically placed throughout your patrol vehicle or other work environment. Placing a kit in each front door pocket and attaching one to your trunk lid or truck tailgate permits access from multiple sides if needed. You may also choose to place the kits in a conspicuous place such as attached to the prisoner cage of a patrol car where it can be seen from outside,” Dickinson writes.

Officers should also consider carrying a laminated card with their medical information in case of a serious injury, Dickinson says. The card should include your name, birth date, social security number, food and drug allergies, medications including over-the-counter medicines taken regularly, key medical history, primary physician, emergency contacts, and information concerning a living will or medical power of attorney, if it exists.

A larger medical kit can be kept in patrol cars or sent with teams engaging in high risk activities. These kits should contain two (or more) medical kits, wrapped separately, and used only for penetrating traumas; a CPR mask; self-adherent cohesive bandages; a splint; nonadherent dressings; bandage strips or wound closure tape; 4 x 4 gauze pads; tape; elastic wraps; safety pins; space blankets; EMT shears; cold compresses; medications (acetaminophen, ibuprofen, triple antibiotic ointment, aspirin); artificial tears (saline); antiseptic solution; alcohol gel; and an Automated External Defibrillator (AED) is recommended for use by trained officers, if available.

Available Products

Downed Officer Kit

The TacMed™ Downed Officer Kit (DOK) is a compact kit which contains the items essential for treatment of serious injuries encountered by law enforcement while fitting in a cargo pocket or glove box. It can also mount to a roll bar/protective shield in a patrol car or tactical vehicle. The DOK is packed in a heavyweight resealable bag, allowing easy replacement of individual kit items. Kit components can also be periodically inspected

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Photo courtesy of H&H Medical

Your agency's resources and policies will dictate what type of first aid kit your officers should carry.

without damaging the integrity of the packaging. The kit's contents can be modified to meet your individual requirements or several prepacked kits are available with or without hemostatic agents. It costs \$39.90 (standard kit), www.tacmedsolutions.com/product/downed-officer-kit/.

Eagle IFAK

The Eagle IFAK is a compact, versatile, individual first aid kit which offers both MOLLE/PALS-style connectors to attach to an assault vest/body armor and an upper or lower mounted 2.25" belt loop attachment to secure the kit in the high or low position on your duty/pistol belt - all in one carrying platform. The smallest IFAK in the North American Rescue product line, the Eagle IFAK contains all of the essential equipment for point of wounding and self-aid/buddy-aid care to address penetrating, blast or other traumatic injuries. Featuring a Quick Pull Tab, the carrying bag easily opens to reveal the removable kit with just one hand. The kit has a unique, detachable shock cord inner panel which can be adjusted to carry different components and provides easy access to the contents. Available from North American Rescue, it costs \$204.99, www.narescue.com/eagle-ifak.

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The patented Combat Application Tourniquet (C-A-T) utilizes a durable windlass system with a free-moving internal band providing true circumferential pressure to the extremity. Once adequately tightened, bleeding will cease and the windlass is locked into place. A hook and loop windlass retention strap is then applied, securing the windlass to maintain pressure during casualty evacuation. The C-A-T's unique dual securing system avoids the use of screws and clips which can become difficult to operate under survival stress or where fine motor skills are compromised. Also available from North American Rescue, it costs \$29.99, www.narescue.com/combatapplicationtourniquet-c-a-t.

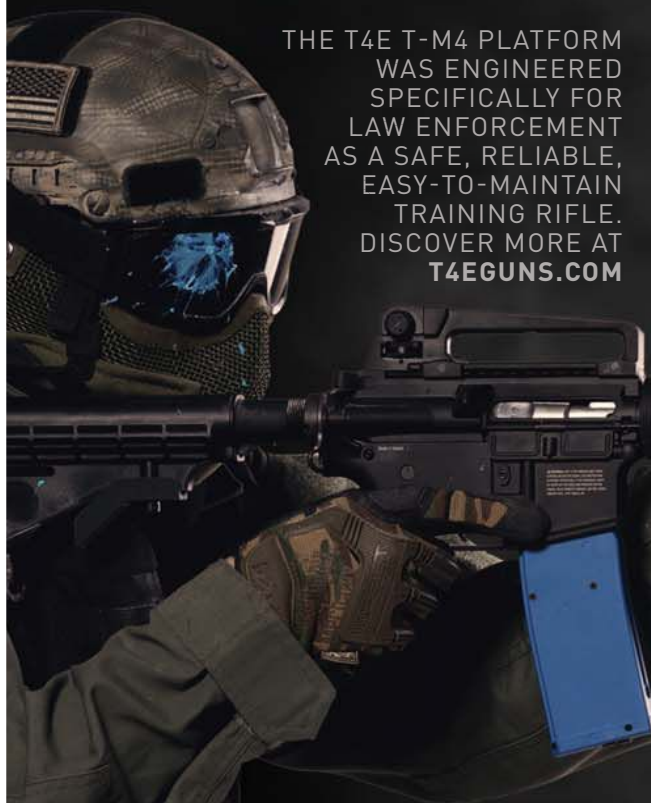
TACOPS Rolling Mass Casualty Kit

TSSI's Rolling Mass Casualty Kit was designed for civilian first responders to use in any location where large crowds typically gather. A large rolling duffel with removable shoulder straps enables the kit to be easily transported over long distances. Inside are ten removable trauma pouches, each capable of treating three to four casualties with traumatic injuries. Two additional pouches contain larger abdominal bandages and hypothermia blankets. Within the lid are multiple moldable splints and burn/blast dressings. On either side of the inner compartment are six disposable poleless litters. Manufactured by TSSI, it is available

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POCKET

The Patrol Officer Casualty Kit for Emergency Trauma (POCKET) puts the tools to immediately respond to a major trauma in a package designed to fit in small spaces (4.5" x 4.5" x 2") and weighs less than a pound. Easy opening, each component is individually vacuum sealed



The POCKET Kit has been designed to fit in small spaces.

and packaged as one kit for quick deployment. Manufactured by H&H Medical Corporation, it costs \$37.50, <http://buyhandh.com/collections/all/products/pocket-law-enforcement-kit>.

Pocket Medical Kit

The TacMed™ Pocket Medical Kit, or PMK, provides the necessary medical equipment to immediately treat life threatening traumatic injuries. The SOFTT-Wide included in the kit is rescue orange, making its application readily apparent for additional first responders. The PMK is designed to fit neatly into the chest pocket of a duty shirt, trauma plate pouch of a concealed armor carrier or the back pocket of your jeans. It costs \$53.31, www.tacmedsolutions.com/product/tacmedtm-pocket-medical-kit/.

Operational Medical Kit

Designed to be small, low profile and packed with the essentials, the Operational Medical Kit (OMK) exceeds the requirements of the Hartford Consensus for hemorrhage control by providing more lifesaving gear in a tight pouch the size of a double magazine. The kit is packed in the H&H Personal Trauma Pouch with Molle straps, a hook-and-loop patch for identification and easy access. Made by H&H Medical Corporation, it costs \$87.50, <http://buyhandh.com/collections/all/products/operational-medical-kit>.

POW Response Pack

The POW™ (Point of Wounding Care) response pack provides the quickly needed tools to provide quick "Life Saving Interventions" during the triage process, particularly bleeding control, while being worn by the rescuer. The pack is built from water-resistant Cordura® with taped seams and ergonomic shaping. The main pocket opens to reveal multiple sleeves and stacked elastic to provide instant access to tourniquets, battle dressings, clotting agents, chest seals, etc. The front pocket

is divided for use with chem lights, extra PPE or a stethoscope. The wings of the pack are clearly labeled for triage. The left wing contains a Fox 40 whistle on a lanyard (you can also stow extra gloves here). The right wing is for tape ends. Available from Conterra Inc., it costs \$399.00 (fully loaded), www.conterra-inc.com/products/pow-response-pack.

First Aid Flowchart

The "at a glance" foldout first aid flowchart is packed with information for helping you assess your emergency and make decisions quickly. The flowchart is broken into eight first aid categories: Critical Body Systems, Wounds and Burns, Muscle Skeletal/ Spine, Anaphylaxis (Allergic Reaction), Medical Emergencies, Toxins, Environmental Emergencies and Gastro Intestinal/Genito Urinary. It also includes illustrated steps for splinting, hypothermia wraps, blisters and more. Printed on waterproof paper, the 17" x 11" chart folds down to 4" x 6". Also from Conterra Inc., it costs \$8.00, www.conterra-inc.com/collections/first-aid/products/first-aid-flowchart.



The SWAT-T™ Tourniquet functions as a pressure dressing, an all-purpose wrap and a primary and/or backup tourniquet.

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The SWAT-Tourniquet (SWAT-T) is an easy to use alternative to windlass tourniquets. Designed to be applied in seconds, the SWAT-T is effective for self-application – even in wet or bloody conditions. Also effective as a pressure dressing or all-purpose wrap, the SWAT-T comes in rescue orange or tactical black. Manufactured by TEMS Solutions, LLC, it costs approximately \$10 (price varies by reseller), www.swattourniquet.com.



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New, No Cost App Seeks to Keep Users Out of Bad Neighborhoods

RedZone Map™, a GPS driven, real-time crime and navigation map app, was recently launched on Apple's App Store. Now available for free, RedZone Map's breakthrough proprietary geo-fencing technology combines real-time crime data and seamless GPS navigation with a social media twist.

The app's intuitive design offers a straightforward way to identify "red zones" – concentrations of highly reported crime in an area – and helps navigators obtain optimal cautionary commuter alerts. Whether enabling travelers to familiarize themselves with their surroundings, navigators to avoid high crime neighborhoods, or businesses to identify new locations, RedZone Map anticipates increased consumer interest in mapping technology to aid in safer navigation.

"We believe that RedZone's innovative technology will allow the average person to be more aware of his/her surroundings – in real time – and will enable the user to share information with others in communities all over the world," said Ted Farnsworth, RedZone Map's CEO and founder.

RedZone Map is free and easy to use. Available on mobile devices, it is powered by geo-fencing to inform users of high crime areas by voice and screen. Offering a risky route and a safe route, RedZone Map will redirect the user around risky areas out of harm's way. Coupled with crowdsourcing, it allows people to drop a pin to reflect hazards they see, such as accidents, crimes in progress, etc., supporting today's engaging mindset of "I want to see it now."

When users navigate within the app, risky areas along their routes populate and display pins to show the exact locations of any shootings, assaults, thefts or other crimes which may have occurred within the past 90 days. Additionally, users have the ability to report a witnessed incident, crime or other hazard. All data within RedZone Map is backed up with police reports and the app engineers are constantly monitoring and updating to ensure accuracy.

Currently available to iOS users, with an Android™ version launching shortly, RedZone Map is available in the App Store. More information is available on the RedZone Map Web site (www.redzonemap.com) and the free app is available for download in the App Store.

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TUFF's Active Shooter Kit
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trauma kit, as well as
four AR-15 magazines.*

TUFF Active Shooter Kit

The TUFF Active Shooter Kit (T.A.S.K.) is an all in one leg rig system which holds (but are not included) four 20 or 30 round AR-15/M4 magazines, EMT shears, latex gloves, surgical tape, modular bandage, tourniquet, and chest seal. Everything stores conveniently into the zippered Personal Trauma Kit Pouch. The elastic leg strap and buckle system wraps around the thigh securely and the leg drop is adjustable to different heights with a TUFF Hook System. The T.A.S.K. is manufactured with rugged 1680 denier black ballistic nylon and double layered scuba webbing. The included TUFF Quick Hook Mounting System comes with a heavy metal snap hook and a notched polymer ring for saving belt space and easy on and off attachment. Made by TUFF Products, it costs \$79.00, www.tuffproducts.com/3902-tuff-t-a-s-k-active-shooter-leg-rig-with-p-t-k/P&SN

Formerly the Editor-In-Chief for Forensic Magazine, Rebecca Waters is a freelance writer and editor.

Transitioning



Dr. Stephenie Slahor

to the Civilian Sector

The decision to leave law enforcement is usually accompanied by a desire to enter the civilian job sector, but that transition is not always simple.

For someone active in a law enforcement career for a number of years, the transition to the civilian realm may be a little more involved, or even difficult, than first thought – especially if the person does not have a specialized skill. Some coursework or retraining may be necessary to make the transition to a new career path. The geographic area in which the person is located at the time of transition may also have an effect on gaining new employment. For example, someone in Washington, DC, or in another major metropolitan area, may find more job openings than someone in a less populated region. And, special consideration might be given to military veterans over those applying who are from the civilian realm.

Off to a Good Start

Regardless of these factors, there are many ways to present a favorable image to potential employers.

The résumé is the start. It will be the first impression an interviewer will have of you, so it must capture the favorable attention of the interviewer immediately. It must describe education, experience and special expertise so that skill matching is obvious to the employer who has a job opening in that particular skill. Because different employers may have different requirements, having a variety of résumés – some focusing on the overall generalities and others describing particular skills, achievements or experience can be of great value. Tailor the résumé to what the employer wants in a candidate. Be absolutely certain that the résumé is free of grammatical or typographical errors. If your skills in those areas are weak, get a secretarial service to assist with the organization and presentation needed to make your résumé look professional.

Networking

Build a network of contacts. Consult with others who are transitioning from a career, including people already working in the careers or companies being considered for possible jobs; organizations which assist with networking; and Web sites such as LinkedIn. Not all job openings are advertised widely. You may get a tip from someone from your network who knows you're looking for work.

Learn the names of people at the company at which you'll be interviewing. While onsite, pay attention to introductions if you meet a committee or group which is interviewing or showing you the premises. When you shake hands, make it firm and sincere, not a limp rag or a bone crusher. Look the person in the eyes.

You don't have to take charge of the interview, but you do need to participate in it more than just answering questions with short replies, or just referring to your résumé. And, after the interview, follow up in a few days with a phone call or an E-mail to see if any other information is needed and to thank the interviewer for the time spent in the interview.

The Overall Picture

Weigh what you want from the job. Certainly, you want a good wage, but it may not be close to what you earned before, particularly if you're coming into the company at a low or entry level. Factor in benefits which might make up for some of the

salary loss. Insurance, annuity plans, bonuses, leave and sick time, and other perquisites might make the job look better than just judging it on the salary it pays. And, you may be able to work your way up the ladder to better salary as time goes on.

Keep your options open. You may want to consider taking another job which is somewhat different from what you originally thought you wanted – and that is okay.

And, should you decide that the job offer is something you really don't want, say "No" and look elsewhere. If you won't fit into the job or company, admit it to yourself and move on.

It may have been a long time since your last job interview, so prepare. Practice interviewing with someone willing to take the role of an interviewer. Have short descriptions of your education, expertise and experience ready. Be positive. Learn about the job for which you're applying. Learn from Web sites which advise about ways to prepare for an interview and how to "sell" your abilities. Also, hone your negotiation skills so that you're ready for the interviewer who expresses great interest in your capabilities. If the job is going to require a security clearance, know that in advance and state how you are, or will be, qualified for such clearance. If the job will need expertise in computer skills or other technology, get the training or show a willingness to learn.

Looking and Sounding Good

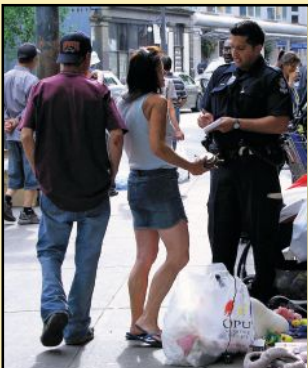
There is some psychology involved in transitioning. If you've been in law enforcement for many years, you are used to giving and taking orders. That's not usually the process used in the civilian sector.

Also important are your appearance and attitude. Employers seek people who look professional, so wear conservative business attire, looking the part of what you are trying to be. Speak clearly and competently, without slang or jargons. If your speaking skills aren't up to par, attend a public speaking class or get a tutor to help. The private sector is very different from the law enforcement sector. It is a new culture and you must demonstrate that you fit in it. Interviewers often have a TV and movie image of police personnel – one which may not be accurate, but will influence what they think you will be like. They may believe that you are rigid or unemotional. You have to demonstrate otherwise, showing your willingness to learn and to assimilate into their domain.

Final Thought

Finally, avoid stating that you're "retired" from the career you had and, instead, say that you are "transitioning" to new work or a new career. Your ultimate success is defined by the match of your skills meeting an opportunity. Be well prepared and conduct yourself with confidence and professionalism. **P&SN**

Stephenie Lahor, Ph.D., J.D., is a writer in the fields of law enforcement & security.



New Report Released on Citation in Lieu of Arrest

NEWS

The International Association of Chiefs of Police (IACP) recently released *Citation in Lieu of Arrest: Examining Law Enforcement's Use of Citation Across the United States*, a comprehensive report documenting law enforcement's current use of citation in lieu of arrest.

Research was conducted to provide the law enforcement community with a reference point for information about citation practices around the United States. This was accomplished by examining 50 years of academic literature on the topic of citation use; by conducting a nationwide survey of law enforcement agencies on their practices and perspectives on citation; and by conducting a series of focus groups with diverse law enforcement professionals.

While calls to increase citation use may seem like a change in practices, research found that 87% of law enforcement agencies use citation, with almost 81% of those agencies using the practice for ten or more years. This data is significant in showing that the law enforcement profession has long supported alternatives to arrest, but also highlights the need to know if, and when, citation in lieu of arrest works best and how best to implement citation policies to achieve these outcomes.

With community/police relations in the spotlight and key policy groups recommending the increased use of citations, this report highlights the importance of studying the use and impact of citation policy; measuring its effectiveness in maximizing public safety and minimizing recidivism; weighing the costs and benefits; and examining officer safety issues before recommending changes in citation procedures or increase in citation use.

To view a copy of the report, visit www.theiacp.org/citation.

NEW TECHNOLOGY

New Touch Screen Display and Vehicle Specific Dash Mounts



Havis, Inc. recently introduced a new lightweight touch screen display which mounts directly to a vehicle's dash panel. This new space saving display functions as an external monitor and provides the option of docking and mounting computing devices in the truck to maximize space and create a comfortable work environment inside the cabin.

The new **TSD-101 Touch Screen Display** gives drivers and passengers convenient access to device settings, with two 2.0W integrate stereo speakers, volume and brightness adjustments, a USB port, and a power button which can black out the screen without rebooting the computing device. **The C-DMM-2000 series mounts** feature a friction-based hinge which creates a tilt/swivel motion for a full range of adjustments.

Circle 4081 for More Information

New Conducted Electrical Weapon



The PhaZZer® **Enforcer CEW** (Conducted Electrical Weapon) causes Neuro-Muscular Incapacitation by firing two dart projectiles into the human body. It is ergonomically designed with a three finger pistol grip for greater control and comfort; it uses a rechargeable lithium ion battery, providing about 5,000 trigger pulls; and is compatible with TASER® cartridges. Their "safety shutdown technology" allows each trigger pull to deploy a five second electrical charge; three consecutive trigger pulls disarms the **Enforcer**.

Circle 4080 for More Information

New Rear Cargo Equipment Storage Systems



Setina's **Cargo, Firearms and Electronics Storage Systems** provide law enforcement with a superior solution for rear cargo area equipment storage. Made from heavy-duty lightweight aluminum in a universal design for SUVs, no drilling is required for a quick and easy installation. They are available in multiple tiers and configurations, including the new optional Whiteboard. They are also available with Setina's new Electronic Locking System, a simple, yet secure, keyless entry made possible with either a keypad or an RFID access control locking option. They are both a single piece design for an easy, no wire integration.

Circle 4082 for More Information

The Tactical Advantage in "OC"



Guardian Protective Devices offers you a tactical advantage in OC spray with **"The Pepper Light,"** a new OC spray with a lighted top. In moderate to low light conditions, it provides a visual, optical stun effect. This is a force multiplier which temporarily reduces a subject's vision to buy you additional time for your threat assessment and it will add an additional layer of safety in applying controlled force. It is available in the MK-3, MK-4 and the Tactical MK-8.

Circle 4083 for More Information



New Tactical Model for Handgun Accuracy

PROHANDS® is proud to announce its first model designed specifically for the handgun market. **PROHANDS TACTICAL** is the ultimate training tool for handgun professionals and is the most effective way to train for accuracy outside the range. By mounting a laser sight onto the PRO edition, shooters now have the ability to train their entire hand, wrist and forearm to lock on the target. PROHANDS TACTICAL quickly improves accuracy and control; develops muscle memory, dexterity, and endurance; and develops the strength critical for recoil management, weapon retention, and subject control.

The set includes a patented "PRO" hand exerciser, two removable spring stabilizer plugs, a mount, a high quality red laser sight, and general instructions.

Circle 4084 for More Information

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BUSTED!

James L. McClinton, Ph.D

This is the first time the body shop ever had to use a chain saw...

In Roselle, Illinois, a driver reported to police that he had just seen a car being driven down the road with a 15 foot tree stuck in its front grille. Officers caught up with the female driver of the car and, sure enough, there was a tree stuck in the front of the car. Further investigation revealed that the car's air bags had also been deployed. The driver said she remembered hitting the tree, but couldn't remember where or when. She was given a field sobriety test and, not surprisingly, she failed. She was then charged with DUI, but, since they couldn't determine where the tree came from, they couldn't charge her with destruction of public or private property. *(Some people drive their car around with a body in the trunk. She drives her car around with a trunk in the body.)*

Did his fortune-teller tell him to expect an extended, all expenses paid stay in a five-star establishment?... The head of a southwestern Michigan mental health agency will serve at least 32 months in prison for using public money to hire a fortune-teller. The former head was sentenced by a Lansing area judge two months after pleading guilty to embezzlement and fraud conspiracy. He was the CEO at Summit Pointe, a mental health organization which serves people in five counties. He was accused of spending \$510,000 on a palm reader in Key West, Florida, and concealing it from others. The attorney general's office says he will pay double that amount as restitution and a civil penalty. *(It seems he may have been better suited as a patient rather than a CEO!)*

Here's proof that the world is made up of protons, neutrons, electrons and morons... A Texas police department said a hoax Facebook post about meth and heroin contaminated with Ebola was meant to be "humorous," but one suspected meth user missed the joke. The Granite Shoals Police Department posted a laughable Facebook warning that local supplies of methamphetamine and heroin were contaminated with Ebola. "If you have recently purchased meth or heroin

REAL STORIES OF GENUINE ABSURDITY



Hilariously appropriate...

After a string of thefts at Walmart® stores in Murrieta, California, store security personnel spotted a suspicious car in the parking lot which matched the description of a vehicle seen during recent thefts and called the police. Police officers noticed the car had two different license plates and neither matched the information on the vehicle. The driver consented to a search of the car and police found drug paraphernalia and a set of burglary tools inside. In addition, the man was identified by an employee as the suspect in a previous burglary at that location. He was arrested and charged with possession of drug paraphernalia, possession of a controlled substance, commercial burglary, grand theft, and possession of stolen property. Oh, and, by the way, the man's last name is Loser. *(He comes from a long line of Losers!)*

in Central Texas, please take it to the local police or sheriff's department so it can be screened with a special device. DO NOT use it until it has been properly checked for possible Ebola contamination! Contact any Granite Shoals PD officer for testing," the post read. At least one person "didn't get the memo." Police said a woman contacted them after suspecting that her meth could be contaminated with Ebola. "Our officers gladly took the item for further testing," the post read. She was arrested on drug charges. *(I need to contact this woman - I have a great time-share condo in Syria she might be interested in buying.)*

These guys need to be cast as the leading characters in a sequel to Dumb and Dumber... In Massachusetts, two men were arrested for drunk driving in the same car, as each man took turns driving

and crashing the car, according to police. The men, 43 and 46, were both charged with drunk driving after police say they were involved in a series of crashes. Police first got a 911 call reporting that the two men had driven their sedan onto a sidewalk and struck a sign posted near a series of pubs and restaurants. The pair was then recorded on surveillance cameras pulling the car over and switching seats before they continued to drive and struck a parked car. The dynamic duo briefly pulled over after being spotted by a police sergeant, but then put the car into reverse, striking the officer's police cruiser. "It was kind of comical," said a police spokesman. "It was the first time in my 31 years that I've seen two people get arrested for drunk driving in the same car." *(If these guys were any dumber, you'd have to water them twice a week!)* **P&SN**

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