

# KEYNOTES

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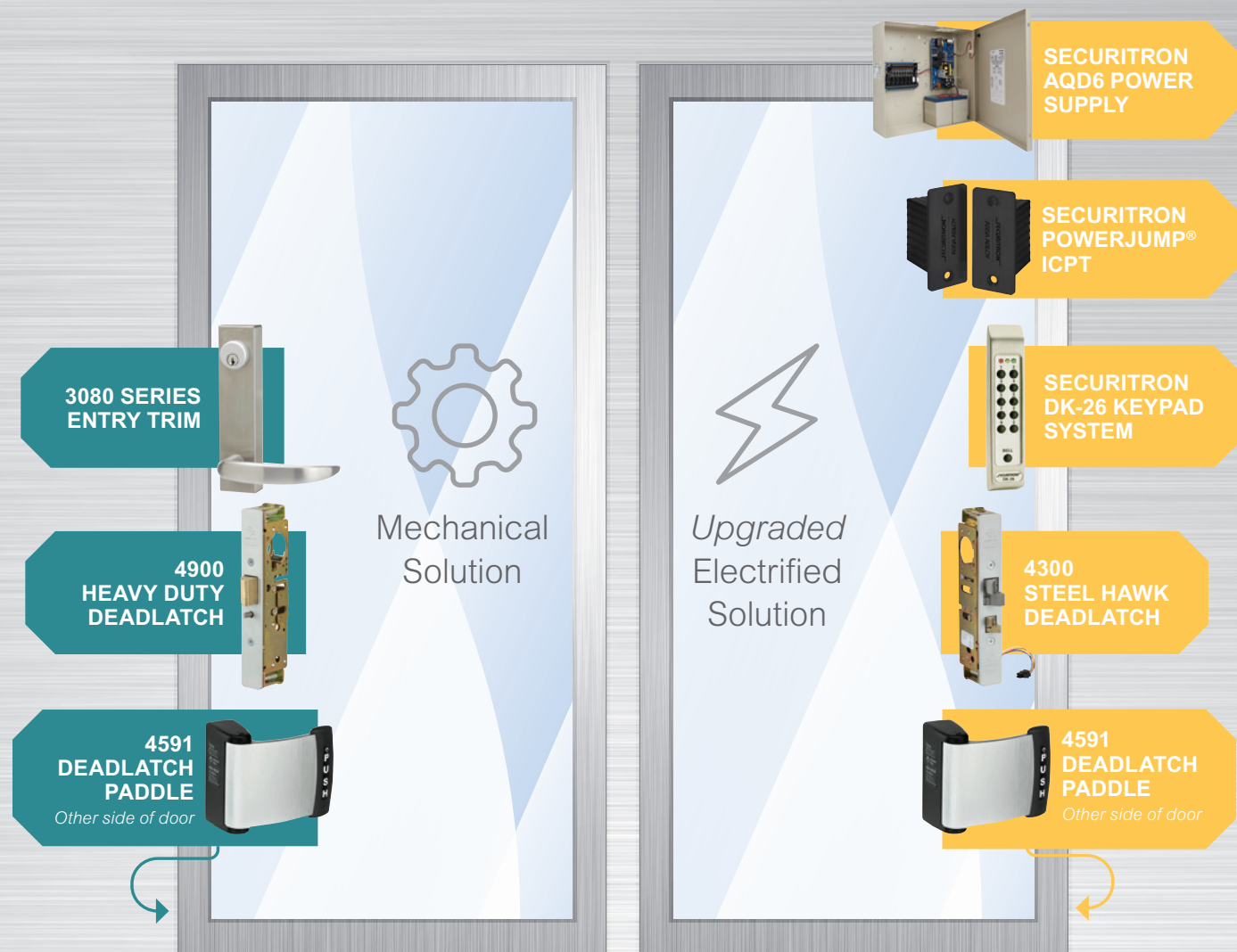
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**Mission Statement:** The mission of the ALOA Security Professionals Association, Inc., as dedicated members of the security industry, is to ensure professional excellence and ethics; create a public demand for professional locksmith services; represent and speak for the locksmith industry; and expand the exchange of trade information and knowledge with other security-related organizations to preserve and enhance the security industry.

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# Success at ALOA Events

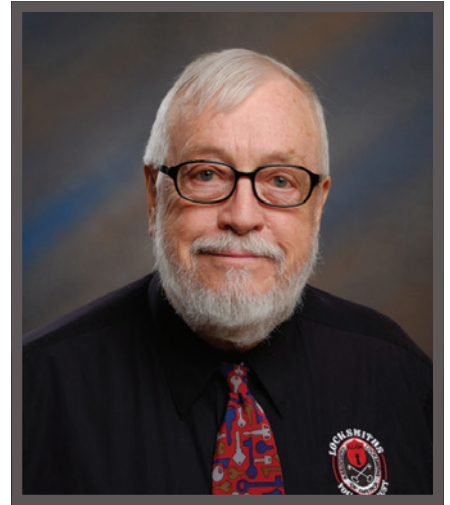
**H**ELLO OWNERS OF ALOA SPAI. Yes, you! If you are a paid-up member, that means you have part ownership of ALOA SPAI.

We just finished two days of work for you at the Spring Board Meeting in Albuquerque, NM, so that afterwards we could also enjoy attending classes and the “Endless Possibilities” at SAFETECH. After that, I stayed to attend and work the Security Leaders Business Conference. Both of these special events were very successful and set new records in their attendance both in educational classes and at their tradeshows. I was very honored to see all of the many new and old members and friends at these events and enjoyed talking with everybody.

Now you need to plan on attending our main event coming soon: the 2017 ALOA Convention & Security Expo on July 16-22 in Rosemont, IL. It looks like everything is coming together earlier than previous years and ahead of last year’s attendance. If you miss this one, you’ll miss a really good show and a chance to see all of your friends.

IAIL President Tom Demont, Northeast Director Bill Mandlebaum and I recently traveled to Tokyo, Japan, to attend the ALOA SPAI Japan Chapter’s 20th anniversary and meet with many good people. We attended the Japanese Lock Security Cooperative Youth Sectional Meeting, where they had 26 members in attendance (and they have 90 members in their group). The next day, we

**“Now you need to plan on attending our main event coming soon: the 2017 ALOA Convention & Security Expo on July 16-22 in Rosemont, IL.”**



attended the ALOA SPAI Japan 20th Anniversary event, pictured below. On the third day, we attended the general meeting of the local chapter and a meeting with several of the local chapter officers in the evening. It’s always good to meet and mingle with our international members, and we enjoyed our time there.

Best regards,

Tom Foxwell, RL, CAI, CFDI  
President  
ALOA Security Professionals  
Association, Inc.  
president@aloe.org



ALOA President Tom Foxwell, IAIL President Tom Demont and Northeast Director Bill Mandlebaum attended the 20th anniversary celebration for the ALOA SPAI Japan Chapter in April.

# Let Technology Take Your Membership Further

**H**ERE AT ALOA SPAI, OUR BOARD and staff are always looking for ways to move the association forward. We love it when we can offer our members services that not only benefit them, but that also help our organization run more efficiently. Electronic services and improved technology are where this often comes into play.

I'm sure you've noticed how electronic and social media have drastically changed people's day-to-day lives over the past ten years. Facebook has become so popular that many people of all ages can't imagine going a week — or a day — without checking on what their friends and favorite brands are up to. Without more than 1.86 billion monthly users, Facebook is surely a powerhouse. In the same vein, people have been migrating away from printed daily newspapers and are reading news on the web more and more.

Just as the world around us is changing, ALOA has moved with it. We have a Facebook page where members can not only get ALOA news but can also communicate with each other across the world — gone are the days where you can casually chat with each other only at conventions and events! If you haven't liked us on Facebook yet, please visit [www.Facebook.com/ALOA.org](http://www.Facebook.com/ALOA.org) and start interacting with your colleagues.

We've also integrated other ways for you to use technology in your member

benefits and activities. Voting for ALOA officers and directors and registering for events is now so easy with online voting and registration. And to keep your FindALocksmith.com listing up to date, you only need a few clicks of the mouse.

While ALOA still offers printed classified ads in Keynotes, we also have an online ALOA Career Center at <http://careers.aloa.org> where you can have instant access to jobs and post open positions within your company, all without waiting for the monthly magazine to be mailed to you. We also provide you with a weekly e-newsletter to keep you up to date on ALOA SPAI and industry news between Keynotes issues.

When ALOA can use electronic methods to communicate with members, disseminate information and assist with

**“The use of technology can save you time as well as let you conduct your ALOA business when it's most convenient for you”**



activities and events, it can make your life easier. The use of technology can save you time as well as let you conduct your ALOA business when it's most convenient for you — not just when it's standard business hours. In return, this allows us more time for member benefits and enhancing your conventions and educational programs. It also allows us to be good stewards of your membership dollars when we don't have to spend as much on printed materials.

Remember, this is your association. Let us know how the ALOA board and staff can make things easier for you or how we can better help you. If you have ideas or concerns, please do contact us as [membership@aloe.org](mailto:membership@aloe.org) and let us know. We're listening.

*Mary A. May*

Mary A. May  
Executive Director  
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## JOIN US IN ROSEMONT!



## ALOA's Japan Chapter Celebrates 20th Anniversary

**T**HE JAPAN CHAPTER OF ALOA CELEBRATED ITS 20TH anniversary in April, with several ALOA dignitaries in attendance. Founded in 1997, the chapter was founded to help foster relationships within the local security industry, share technical information and to promote government relations and propose legislation.

Originally having 21 members, the chapter was first led by Keiryu Tukishiro. The current leader is Makoto Yoshizawa. For the anniversary celebration, ALOA President Tom Foxwell, IAIL President and Past ALOA President Tom Demont and Northeast Director Bill Mandlebaum traveled to Japan to attend. International Director Yoshio Suzuki was present as well.



The Japan Chapter celebrated its 20th anniversary in April.



ALOA President Tom Foxwell, IAIL President Tom Demont, Northeast Region Director Bill Mandlebaum and International Director Yoshio Suzuki were in attendance at the Japan Chapter's celebration.



Tom Foxwell presented Japan Chapter Chairman Toshinobu Ogawa with a plaque recognizing the chapter's anniversary.



# Master Lock Releases New Bluetooth Lock Box

**M**ASTER LOCK HAS UNVEILED THEIR NEW BLUETOOTH LOCK BOXES, which use their free proprietary Master Lock Vault eLocks app to share temporary or permanent access to properties or specific rooms. Available in portable and wall-mount versions, the Master Lock Bluetooth Lock Boxes provide access control solutions that are ideal for a variety of scenarios, including to allow small business owners to give employees and contractors permanent or temporary access to locations without distributing physical keys while keeping a digital trail.

Once the lock box is registered and connected to the owner's Bluetooth-enabled device, the lock unlocks at the touch of a button when that device is within range. A secondary access code can also be entered on the keypad.

Features include tamper alerts, weather-resistant materials, large storage capacity for multiple keys, battery life of up to two years and no fees for app usage. Auditing capabilities include viewing lock history, registration, guest addition/deletion and unlock/open/relock activity. This product will be on display at the ALOA Convention & Security Expo in July.



Master Lock's new Bluetooth Lock Boxes allow temporary or permanent access to locations without the need to distribute physical keys or access cards.

## NEWS BRIEFS

➤ The HES 1500/1600 Series Platform won the Security Industry Association's (SIA) New Product Showcase Award for Access Control Devices & Peripherals at ISC West in Las Vegas.

Security Today and GovSec also honored the HES 1500/1600 Series Platform with a Platinum Govie Award and the Adams Rite 8000 Series Exit Device with a Gold Govie Award, which honors outstanding government security products.

➤ Jenne, Inc., a distributor of security product solutions, is offering several security and surveillance webinars highlighting leading manufacturers and products. The webinars, which are available for on-demand viewing, include titles such as Jenne Security and Surveillance Solutions, Hanwha Techwin—Defining the New Standard in Security and Surveillance, Introduction to Acutech Security, Lock On to Westinghouse Security and Introduction to OnSSI. For more information, visit [www.jenne.com](http://www.jenne.com).

## Don't Miss ALOA 2017 in Rosemont!

The early registration deadline for the ALOA Convention & Security Expo in Rosemont, IL (the Chicago area) is coming up June 16 — hurry now to sign up! For questions, email [conventions@aloea.org](mailto:conventions@aloea.org) or call (800) 532-2562 x218.



## Don't Forget to Vote!

Members, don't forget to vote in the ALOA SPAI elections! A special elections meeting will be held at 10 a.m. CDT on June 9 at ALOA SPAI Headquarters in Dallas, TX. You can vote online, or send in your proxy ballot by mail or fax. Your proxy ballot must be received no later than 11:59 p.m. CDT on June 6. Use the ballot included in the May issue of *Keynotes*, or contact [membership@aloea.org](mailto:membership@aloea.org) for assistance.

## PRODUCT BRIEFS

➤ The **DeltrexUSA iLDA** Bluetooth-enabled door alarm mounts into a standard two gang electrical box, powered from 10vdc-32vdc. It has a 2.6" LCD display and uses the iButton digital key in lieu of traditional mechanical arm/disarm keys. Shunt/bypass/silence and other features are performed locally using the iButton, iPhone or remotely from any access control system. A local built-in database allows for validating/invalidating over 50 "digital key" users. The iLDA can be custom programmed.



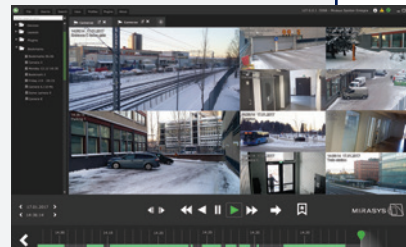
➤ **Iico's** Code Maker software is for the Futura Series (Futura, Futura NA, Futura Pro) of electronic key cutting machines. Code Maker, an optional software, allows the key cutter to create cards for keys not yet available in the Silca Database. You can create cutting cards for both flat and dimple keys (laser keys are not supported). Once purchased, Code Maker is accessible via the Futura tablet and activated by updating the Futura software. It can then be used offline without an internet connection.



➤ **ASSA ABLOY** has announced the integration of its Aperio wireless lock technology with ProdataKey's pdk io cloud managed access control solution. Aperio wireless technology uses wireless communication (IEEE 802.15.4) between the lock and an Aperio hub to provide real-time communication to the access control system. ASSA ABLOY has also announced the integration of their IP-enabled PoE (Power over Ethernet) and WiFi access control locks with Millennium Group's Ultra browser-based access control platform. The integration offers users flexibility to tailor solutions to the facility's needs.

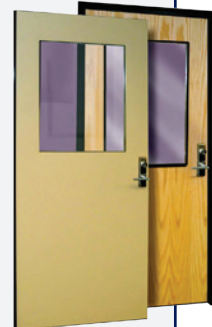
➤ **Genuine HID Technology** has now been added to the majority of Paxton readers. By purchasing a HID 125kHz Proximity license, your customers can add HID functionality. In addition, nine of Paxton's readers can be purchased pre-activated with 125kHz Genuine HID Technology and are ready to use right out of the box.

➤ **Mirasys Ltd.** has launched a new-generation video management system, Mirasys VMS V8. The new V8 scales to different-sized environments, and includes three different product variants: Ikon, Entegra and Stratos. Mirasys VMS V8 is fast and easy to install. Servers can be pre-configured before the delivery on site, and the user interface is easy to learn for novice users. Later this year, a new HTML5 browser-based client user interface will provide easy access to the Mirasys system from desktop, tablet and mobile.



➤ **Hollon Safe Co.** has released depository safes with thicker steel. The door of the FD-2014K has steel that is 1/2" thick, and the body is 1/4".

➤ **ASSA ABLOY** and **School Guard Glass** have partnered to offer Attack Resistant Door Openings. This new product is a complete doorway system that delays or thwarts an attacker's entry into a room long enough for occupants to seek safety. It meets test standards for forced entry and ballistic resistant levels of protection for various threats set forth based on the FBI's Active Shooter Report. While the door or glass may not stop a bullet from penetrating the opening, the door assembly can withstand a four-minute physical attack after being shot 60 times with 7.62 NATO rounds.



➤ **Westinghouse Security** has added a "lockdown" function to its RTS Lock series. It's ideal for locations such as educational buildings, retail stores and office spaces where people can freely enter a space but remain locked in when a threat exists and evacuation is not an option. The lockdown function allows someone to lock a door without stepping into a hallway, street or common area without relying on the accessibility of an external FOB or remote command. Once in lockdown, the door is locked and ingress requires an authorized user to enter credentials to unlock the door. ☎





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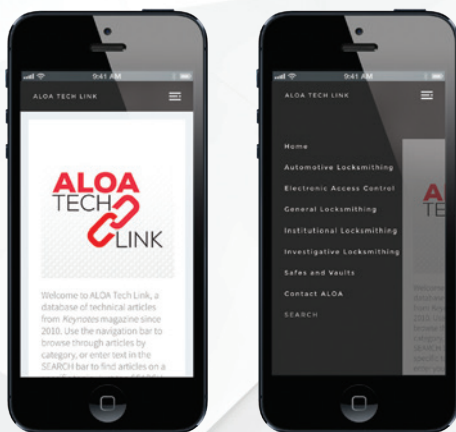
These applicants are scheduled for clearance as members of ALOA. The names are published for member review and for comment within 30 days of this *Keynotes* issue date,

respectively, to ensure applicants meet the standards of ALOA's Code of Ethics. Protests, if any, must be addressed to the ALOA membership department, signed and submitted via e-mail to [membership@aloa.org](mailto:membership@aloa.org) or via fax to 214-819-9736.

### We Need Your Help

**Attention, ALOA members:**  
Help us eliminate the ongoing industry problem of scammers by screening the new applicants listed on these pages. If you have questions or concerns about any of the applicants, please contact Kevin Wesley, membership manager, at (214) 819-9733, ext. 219, or email [kevin@aloa.org](mailto:kevin@aloa.org).

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[www.aloatechlink.com](http://www.aloatechlink.com) | [www.savtatechlink.com](http://www.savtatechlink.com)

For a complete calendar of events, visit [www.aloa.org](http://www.aloa.org).

## CALENDAR

### JULY

**July 16-22**  
**ALOA Convention & Security Expo**  
Donald E. Stephens Convention Center  
Rosemont, IL (Chicago area)  
ALOA.org or (800) 532-2562, ext. 218

### OCTOBER

**October 2-7**  
**Six-Day Basic Locksmithing**  
ALOA Training Center  
Dallas, TX  
[education@aloa.org](mailto:education@aloa.org) or  
(800) 532-2562, ext. 101

**October 18-22**  
**Yankee Security Conference & Tradeshow**  
Sturbridge, Massachusetts  
[www.yankeesecurity.org](http://www.yankeesecurity.org)  
Contact Seth Derderian at  
(800) 209-8266

### DECEMBER

**December 4-9**  
**Six-Day Basic Locksmithing**  
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# Gearing Up for ALOA 2017

Don't miss the early-bird registration deadline of June 16 for the [ALOA Convention & Security Expo!](#)

**S**AFETECH 2017 AND THE Security Leaders Business Conference in Albuquerque were both big successes! SAFETECH was a great week filled with the latest products, world-class education and networking with colleagues. At the Security Leaders Business Conference, attendees were wowed with the invaluable one-on-one time with manufacturers and distributors while learning about optimizing their business and careers for success.

A huge thank you to all of the attendees, speakers and exhibitors who made these two events so rewarding. Couldn't make it this year? Plan to attend in 2018!

## **On Deck: 2017 ALOA Convention & Security Expo**

Don't miss your chance to register for ALOA 2017 with early-bird pricing! The preregistration deadline is June 16, so hurry to get lower pricing.

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**"We've added a few new certification programs, and we have new classes and tracks to help you achieve those credentials."**





## QUICK FACTS

July 16-22, 2017

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Deadline: June 16**

For more information, email  
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with four hotels, so you can pick the one that works best for you at an affordable price. Visit [ALOA.org](http://ALOA.org) and click on the ALOA Convention tab to learn more about accommodations.

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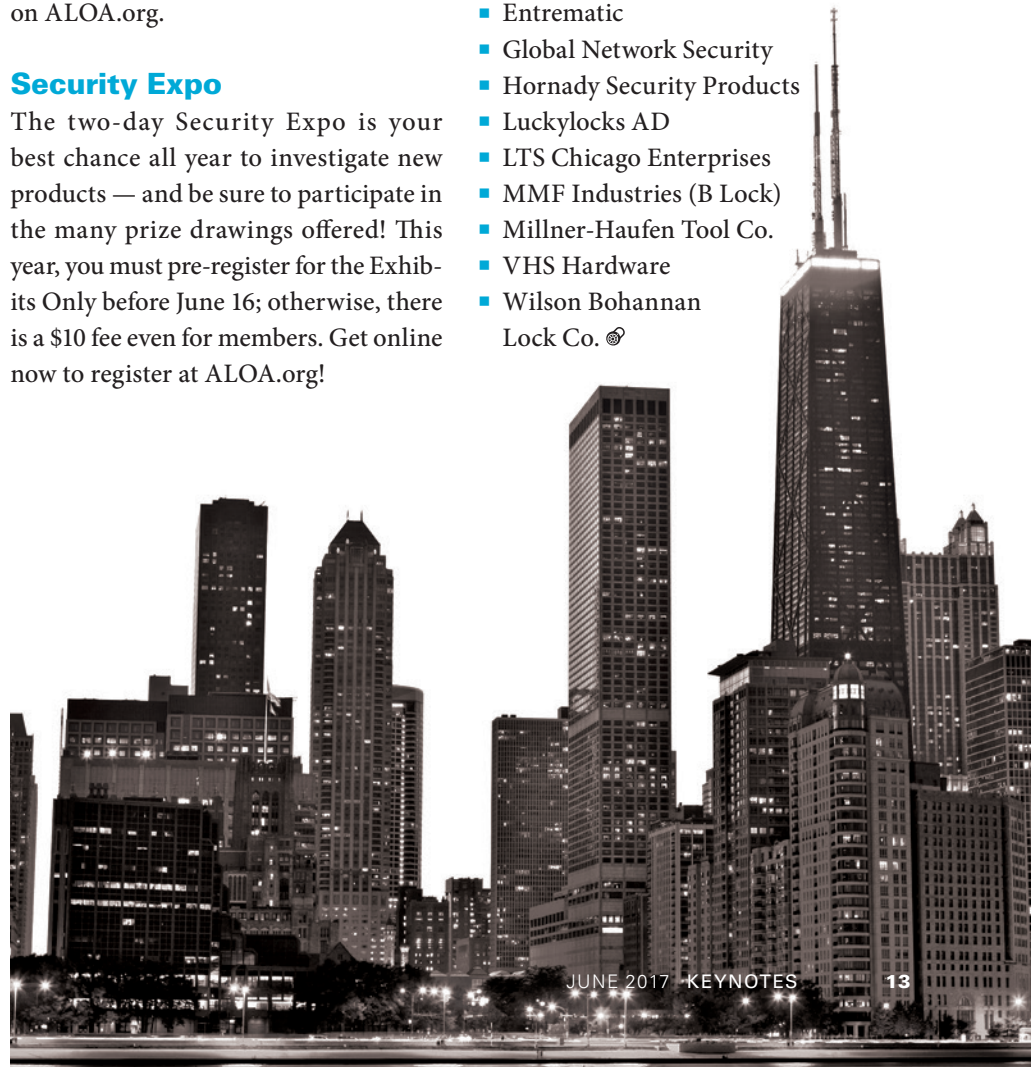
with April issue of *Keynotes*, or find details in the ALOA Convention section on [ALOA.org](http://ALOA.org).

## Security Expo

The two-day Security Expo is your best chance all year to investigate new products — and be sure to participate in the many prize drawings offered! This year, you must pre-register for the Exhibits Only before June 16; otherwise, there is a \$10 fee even for members. Get online now to register at [ALOA.org](http://ALOA.org)!

In addition to your usual favorites, there will be several new exhibitors in Rosemont:

- Entrematic
- Global Network Security
- Hornady Security Products
- Luckylocks AD
- LTS Chicago Enterprises
- MMF Industries (B Lock)
- Millner-Haufen Tool Co.
- VHS Hardware
- Wilson Bohannon Lock Co. ☎





ALOA 2017 is offering several forensics classes to help you achieve your credentials for being an expert witness.

# Get Trained at ALOA 2017

Attend the ALOA Convention & Security Expo in Rosemont, IL, to work toward your credentials.

CAN'T BELIEVE HOW BUSY I AM THIS YEAR. NOW IS THE TIME I WOULD LIKE TO clone myself just so I can keep up with all of the demands on my time. Some of this is my own doing because I volunteer for too much. Hell, if I'm not busy, I'm not happy — and being happy means I'm making money. So it looks like there is a means to all of this hard work! I hope that the rest of you are busy this year too.

I am impressed with the turnout this year for education across the country! Everywhere I've been, the classes are sold out with locksmiths thirsting for knowledge. From Canton, OH, Houston, TX, Nashville TN, and Secaucus to Sicklerville, NJ, and on to Omaha, NE, the classrooms are packed. That's a great sign that locksmiths want to advance themselves through education. We live in such a high-tech world these days that we tend to get swamped working and forget to build in some training time. There are two things we cannot get enough of, and those are training and reading instructions!

I have been asked constantly, "How do I become an expert witness?" Great question, and here are your answers: One, join the IAIL division of ALOA SPAI. Two, start taking forensic classes. Three, sign up for and take your certified forensic locksmith (CFL) exam. Four, complete your PRP and earn your CML, CAL, CFDI, CPS, CHI and CMST. As I've stated before, you cannot have enough credentials on your CV to show you are an expert. Having 60 years in this profession is impressive, but not like having 60 years and many credentials to show that you tested.

You need to start somewhere, and this year in Rosemont there will be a whole array of forensic courses being offered to help you work toward your goal. As always, if you have any comments or suggestions, please contact me at [iail-president@aloea.org](mailto:iail-president@aloea.org). Don't miss an opportunity to add another profit center to your portfolio. ☺



**Tom Resciniti Demont,**  
AHC, CAI, CFDI, CFL,  
CMIL, CML, CMST, IFDI,  
LSFDI, ARL, President, In-  
ternational Association of  
Investigative Locksmiths.

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**“There are a number of reasons why every professional — no matter the trade, skill level or generation — can benefit from a thorough resume.”**

**KNOW WHAT YOU’RE THINKING:** I’m established in my profession and stable in my career. Why would I ever need to have a resume? There are a number of reasons why every professional — no matter the trade, skill level or generation — can benefit from a thorough resume.

### **Track Your Accomplishments**

A resume is a great way to keep track of all your accomplishments. It can be a landing page for your license numbers, certifications and the roster of trainings and courses you’ve completed. It can be easily stored on your computer or in cloud storage, and as you complete further training, you can simply update the document.

### **Market Yourself Online**

A traditional resume provides a solid template for the information that should be present on your LinkedIn profile. If you already have a resume, you can use it to create your online profile. Moving forward, it’s a wise idea to keep both your

# Why Every Professional Needs a Resume

**Katelyn Radtke** discusses how a resume can help you in your business and enhance your career.



resume and your LinkedIn page current. If you're interested in starting a professional website for yourself, your resume is a great start to the content, keywords and information that should be included.

### Close the Sale

A polished and classy resume is a great way to express your talent, skill and expertise to a new or prospective client. When relevant, you can include this information in an introductory packet or in a bid packet. This can set you apart from the competition and help reinforce the notion that you're the most skilled and well-suited individual for the opportunity.

### Expand Your Network

Most associations, clubs, board of directors and networking groups require a resume to apply for membership. Hav-

ing this ready to go ahead of time can help expedite the process of joining when you're ready to. If you're interested in contributing to your community or increasing your business and you have yet to consider joining any local organizations, now's the time! Ironically, these types of memberships are one more component you can add to your resume. The cycle continues, as membership in groups is a great way to gain more referral business and name recognition.

It's much easier to build your resume as you go than it is to start from scratch — but if you're just beginning to document your work experience, don't fret! The easiest way to get started is to simply start a list. If your resume is not for direct employment purposes, it's not relevant to list all of your previous employers, dates and positions. Instead, begin by making a list of all your

skills, completed trainings and certifications. Additionally, you can list how many years of experience you have in particular areas of the trade. There are also resources out there to help. A quick Google search can lead you to tons of free and low-cost resume templates that can assist you in developing a contemporary and professional look in line with your company branding. ☺



**Katelyn Lucas Radtke** is a fourth-generation security professional based in the San Francisco Bay area. She is an expert contributor to *Blackhawk Living Magazine* and lead contributor to Give-A-Hoot.com, a website, blog and YouTube channel empowering communities by providing safety and security information, tips and education.

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**Figure 1.** The Ilco 515 was a short-lived electronic lock used in the '90s.

# A Trip Down the Spindle Hole

A blast-from-the-past Ilco 515 challenges the memory and demands precise technique.

By Bob DeWeese, CML, CPS, CJS, CAI

**B**ACK IN THE MID '90S, WHEN I first got into safe work seriously, one of the first new electronic lock “certification classes” I took was for the Ilco 515 (see Figure 1).

The lock was pretty short-lived because after Unican gobbled up Ilco, Kaba gobbled up Unican. And, since Kaba already had a line of locks, they killed the 515 along with all the other Ilco safe locks. If I’m not mistaken, this was somewhere around 2000-2001.

## An Old Newfangled Lock

I installed one of these for a local chapter of the Vietnam Veterans of America on one of their safes. They wanted one of those “new fangled pushbutton locks,” and since I had taken the certification/sales pitch class on these, that’s what I chose to install.

It was only a handful that I sold and installed, and I had all but forgotten about them. But a couple weeks ago, I got a phone call from one of the new board members. Apparently they hadn’t used the safe in years, and now nobody knew the combination.

I’ve done steady work for their bar over the years and am very familiar with the safes in that office. But this safe was in a room in the other end of the building, and I hadn’t laid eyes — let alone hands — on it since I installed the lock almost two decades ago. But I remembered it! Well, at least I remembered the lock. It was one of the first e-locks I’d ever sold and installed.

I gotta admit, though, when the guy said it was on a “post office safe,” I started to sweat a little bit. Some of those things have some of the nastiest HP I’ve ever drilled. I did one in Joe Cortie’s GSA class a long time ago, and I remember it to this day! Fortunately, this was just a fire safe (Figures 2-4).

## A Simple Plan

Anyway, the guy told me that he was getting ready to go on vacation, and that he would call me when he got back to have me come out and open the safe. Having long forgotten just about everything about these locks and NEVER having drilled one, I went into scramble mode as soon as I got the followup call.

Perusing the ClearStar archives and Dave McOmie’s books, I came up with what seemed like a fairly simple method for opening one of these locks: going



Figure 2



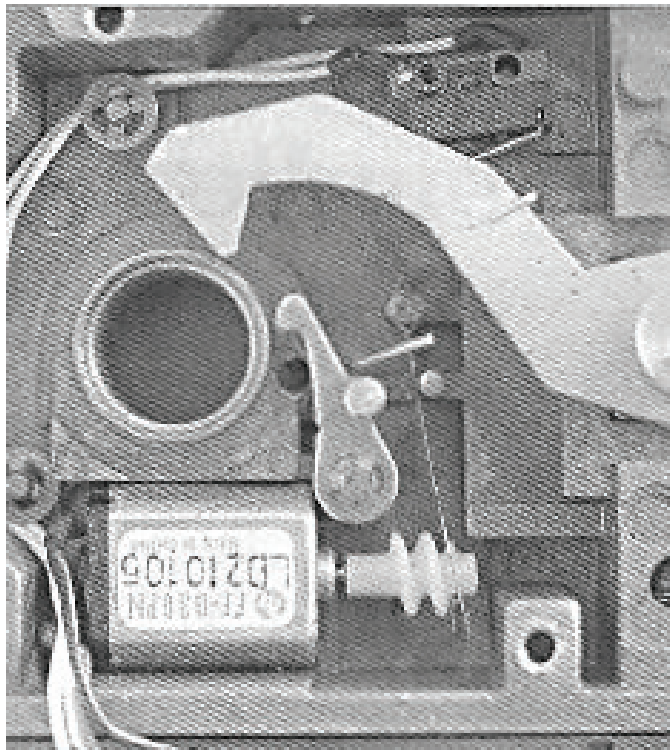
Figure 3



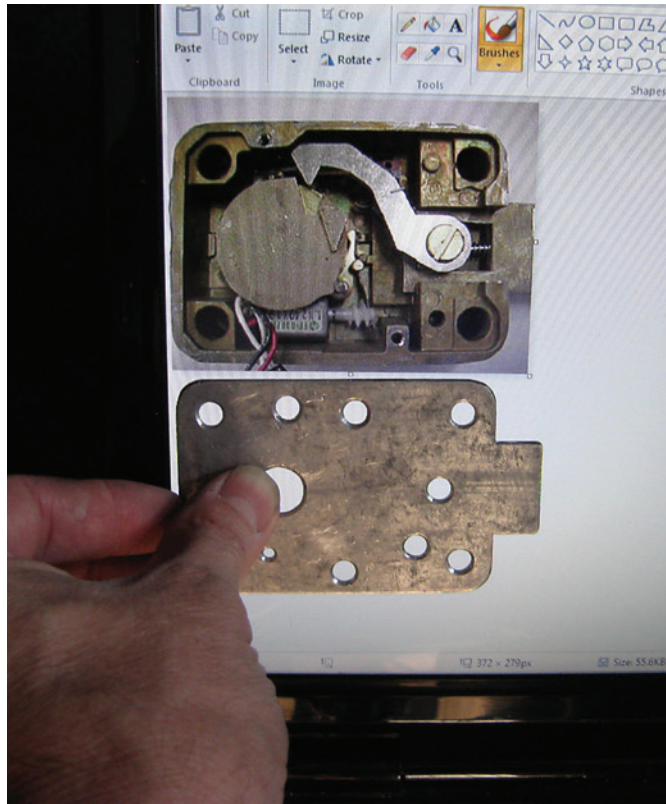
Figure 4

**Figures 2-4.** Although the labeling on the front of the safe indicated it was a post office safe, pointing to possible difficulty, it was just a fire safe.





**Figure 5.** Going down the spindle hole can be done by angle drilling next to the spindle hub, toward the lock bolt, then inserting a thin, bent wire to move the hook towards the drive cam. (Courtesy of Dave McOmie, from NSO, Autumn 2001.)



**Figure 6.** To get measurements, a photo of the lock was resized to the size of one of Gerry Forder's templates.



**Figure 7.** Using the template as a guide, the decision was made on where to put the hole in the door.

right down the spindle hole! It's done by angle drilling next to the spindle hub, toward the lock bolt, then inserting a thin, bent wire to move the hook (more on that later) towards the drive cam (Figure 5, courtesy of Dave McOmie, from NSO, Autumn 2001). But because of the size of the spindle hole and the thickness of the door (over 3 inches), that didn't seem like a very viable option. So, I had to come up with my own plan of attack.

### Measure Twice

Having a picture of the lock in my database (I don't know where it came from or I'd give credit), I resized it on my laptop screen using Paint, so that it was the same size as one of Gerry Forder's templates that I had handy in my tool bag (Figure 6). (Man, that template comes in handy for so much more than just what it was originally intended to do!)



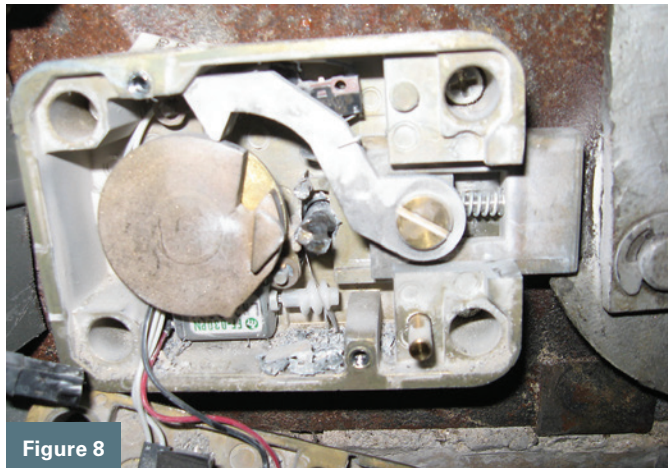


Figure 8



Figure 9

**Figures 8 and 9.** The drill bit not only pushed the hook over into the drive cam, but the burr created by the drill bit held the hook in place.



Figure 10

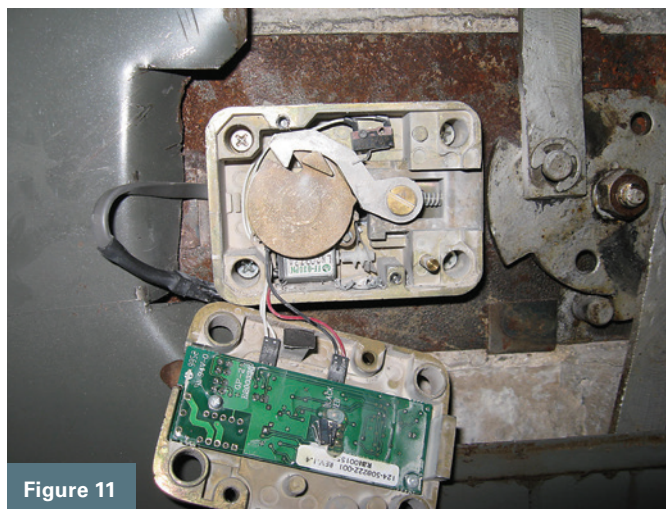


Figure 11

**Figures 10 and 11.** At this point, the spindle could be reinserted and the drive cam turned to retract the lock bolt.

Another way to “scale” a picture is to just resize it so that a known part’s size is what it should be. For example, the lock bolt on most modern safe locks is exactly 1 inch. So, if you resize your picture so that the width of the lock bolt is exactly 1 inch on your screen, you can take your measurements right from there with pretty accurate results.

Using Gerry’s template as a guide, I made my decision on where I wanted to put my hole in the door (*Figure 7*). I didn’t lay it out with a ruler — more like just a guesstimate. (But for future reference, it was  $1\frac{1}{16}$  inch toward the bolt and  $\frac{3}{16}$  inch CCW.)

### A Stroke of Luck and a Bad Move

My intention was to come in next to the hook and push it over using a probe with a slight bend on the end. But what ended up happening was even better! (Although, admittedly, pure luck!)

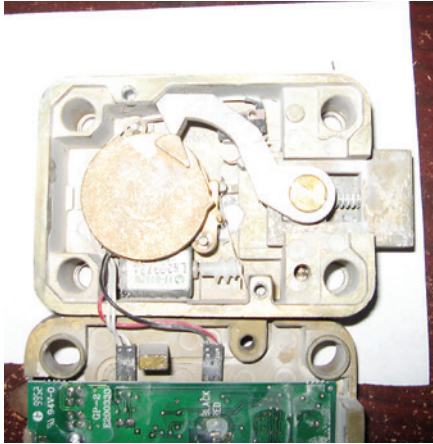
Once it entered the lock case, the drill bit not only pushed the hook over into the drive cam, but the burr created when the drill bit broke through actually held the hook in place (*Figures 8 and 9*)!

All that was left to do was to reinsert the spindle and turn the drive cam to retract the lock bolt. (*Figures 10 and 11*). But here’s where I screwed up!

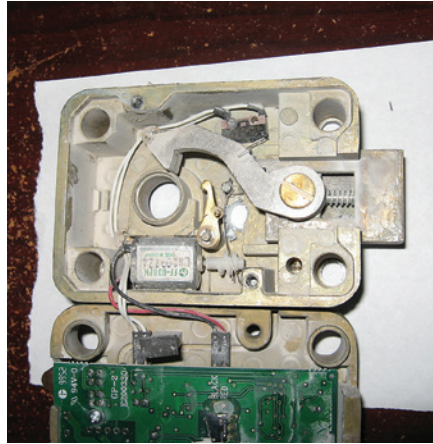
When trying to see if I could pull off the “down the spindle hole” opening, I (idiot that I am) decided to try to pull the cable out of the hole. Boy, was that a stupid move! I wasn’t able to get the entire cable out of the hole, which became a major PITA when trying to re-insert the spindle into its hub. I was eventually able to obliterate most of it with a drill bit (being careful not to screw up the hub in the process) and — with a little force — drive the spindle back into the hub.

In the future, I’ll leave enough of the cable in place that I’ll be able to thread it back down the center of the spindle!

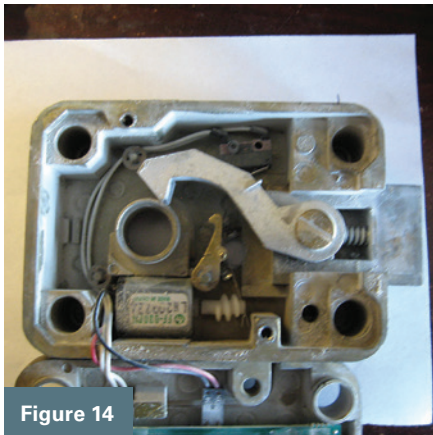




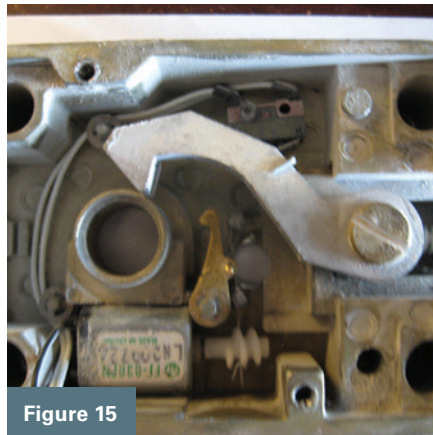
**Figure 12.** The hook is in the at-rest position.



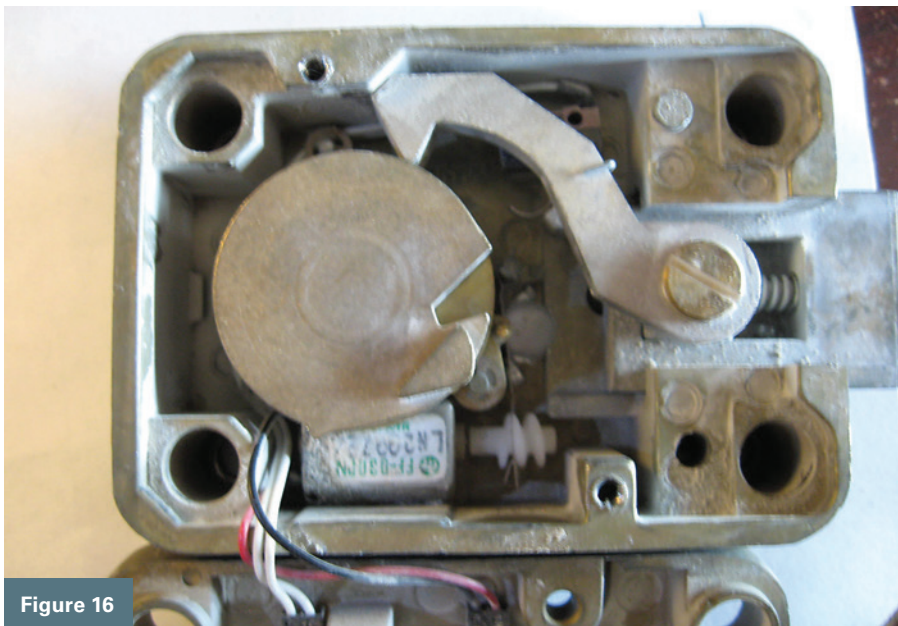
**Figure 13.** The hook is pushed into the drive cam.



**Figure 14**



**Figure 15**



**Figure 16**

**Figures 14-16.** Under normal operation of the lock, a motor-driven worm gear moves a piece of spring steel that pushes the hook into the drive cam.

**“Perusing the ClearStar archives and Dave McOmie’s books, I came up with what seemed like a fairly simple method for opening one of these locks: going right down the spindle hole!”**

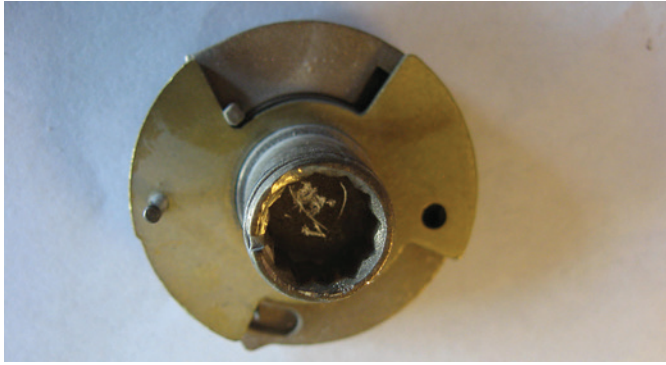
### How It All Works

Now that the opening is out of the way, it’s time to take a look at how the lock (and the opening method) works.

*Figure 12* shows the hook in the at-rest position, while *Figure 13* shows it pushed into the drive cam.

Under normal operation of the lock, a motor-driven worm gear moves a piece of spring steel that pushes the hook into the drive cam (*Figures 14-16*). But here’s where it gets a little tricky. I’ll admit, I had a hard time wrapping my head around it before taking the lock apart and seeing it for myself.

The drive cam is two parts. We’ll refer to them as the inner (closest to the front of the safe), and outer (closest to the lock case cover) drive cams. *Figure 17* shows the pair of drive cams from behind. When the worm gear moves the piece of spring steel, it pushes the hook over to catch a pin on the inner



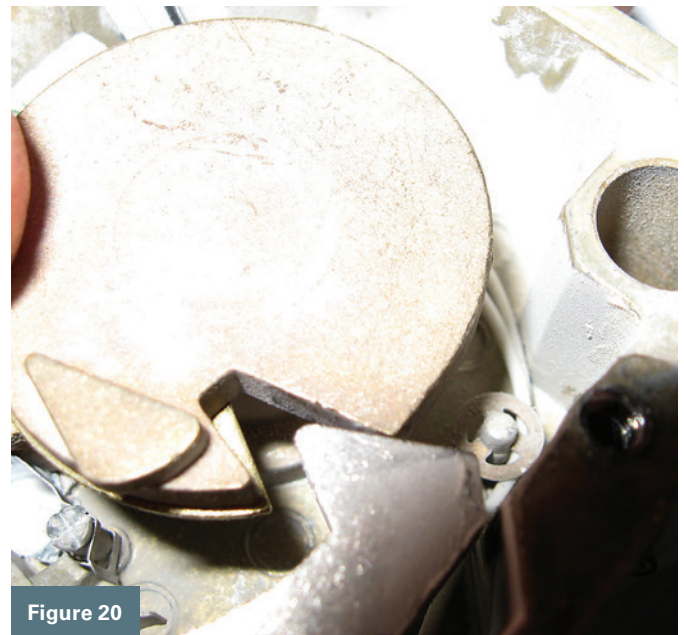
**Figure 17.** The pair of drive cams is shown from behind.



**Figure 18**



**Figure 19**



**Figure 20**

**Figure 18-20.** When the worm gear moves the piece of spring steel, it pushes the hook over to catch a pin on the inner drive cam when the spindle is turned, stopping the gate in the inner drive cam under the lever nose. Continuing to turn the spindle turns the outer drive cam until it's gate lines up under the lever nose.

drive cam when the spindle is turned, stopping the gate in the inner drive cam under the lever nose. Continuing to turn the spindle turns the outer drive cam until its gate lines up under the lever nose (*Figure 18*). Remember, these drive cam pictures are kind of in reverse because you are viewing them from the back (or “front,” as it were). For a better idea of what I’m talking about, see *Figures 19 and 20*.

Once both parts of the drive cam have been rotated so that both gates are under the lever nose, the nose drops

in like any standard combination lock and, continuing to turn, they retract the lock bolt. Done!

### A Rare Find

Considering the age of this lock and the fact that the only reason it’s still on a safe is that it hadn’t been used in probably 10 years, chances are I’ll never see another one in the field. And if you haven’t by now, you’ll probably never see one. (But I needed some more vacation money. So I decided to write an article on it anyway.) But on the

off chance that you do come across one that you have to open, now you’ll know how! ☺



**Bob DeWeese, CML, CPS, CJS, CAI**, has been in the locksmith industry since 1980. He began specializing in safe opening and servicing in the late '90s.

“Bobby” lives in Baltimore, MD, where he and his wife, Theresa, own and operate Bear Lock & Safe Service, which they started in 1988.





# SURVIVING THE APOCALYPSE... FOR LOCKSMITHS!



**Vernon Kelley, CPL, CFI, IFDI, CMIL,**  
gives a light-hearted take on how locksmiths  
can thrive in a post-apocalyptic world.

**T**HE CORONAL MASS EJECTION — THE MOST DANGEROUS OF ALL SOLAR flares — hurls toward earth at 304 miles per second, taking about 3.5 days to reach Earth's atmosphere. Very little can be done to protect the network, which grinds to a halt after equipment all over the country is irreparably damaged by the electromagnetic pulse that envelopes Earth when the flare hits the atmosphere. The world is silent once again as communication abruptly ceases.

Sounds like science fiction, doesn't it? Well, it's not... or wasn't. The event I'm describing above — known as the Carrington Event — took place September 1-2, 1859. This solar flare all but obliterated the Internet of its day: the telegraph system. (The telegraph system seems quaint now, but think about what a technological marvel it must've been in the mid-1800s.) If a similar event took place today, experts predict that it would take years to fully restore the electrical grid — to the tune of two trillion dollars!

Electromagnetic pulse. A coordinated nation-state internet attack on the power grid. Global pandemic. Zombie apocalypse. Pick your apocalyptic poison. Many misadventures can happen on the road to Making America Great Again. The question I'm posing to you is this: How will you and your business survive during a long-term power outage?

Experts in risk management call doomsday prepping "business continuity planning." Regardless of the disaster, business continuity planning is something you should very seriously consider so you can be sufficiently prepared to endure the toughest of the tough times.

I won't get into relocation issues or personnel management in this article, nor how

to deal with any civil unrest that may result from such a calamity. I'll be focusing on how you might perform some of the basics of our craft — and how you might have to conduct business — now that the power is out, that is.

## Key Cutting

After picking, most people perceive locksmiths as key makers. But, in this scenario, there's no electrical power. How will you do something as mundane (by our standards) as duplicating a key? Sure, you can grab that rat tail or pip-pin file and have at it making keys one agonizing cut at a time. But, let's face reality. Making keys using this method is tedious and time-consuming.

Fear not. In the early 1900s, locksmiths used key duplicating machines that were hand-cranked. I'm sure that it's painstakingly slow to operate by the standards of today's machines, but the only power it needs is human. They were so well made that many of these machines from that era still exist today (see Figures 1-2).

While rarely made today, I did find a manufacturer in the United Kingdom called Keyosk ([keyosk.co.uk](http://keyosk.co.uk)) that makes





Figure 1



Figure 2

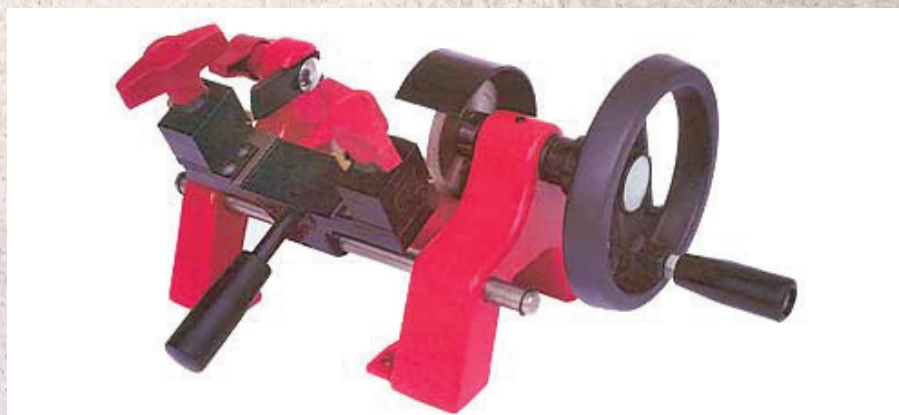
**Figures 1-2.** In the early 1900s, locksmiths used key duplicating machines that were hand-cranked, such as the 1907 Yale and Towne machine showed in *Figure 1* (Images courtesy of the Antique Key Machine Museum, Tom R. Demont, curator).

a hand-crank key duplicator called the Breeze Dual Power Key Machine TM1015 (*Figure 3*). It's dual powered because they do have an available adaptor to power the machine using a hand drill, but you won't be needing that when the grid is down. You won't care. Electricity is for chumps, right?

To their credit, Keyosk plainly states that "it is only designed to cut small volumes of keys." Personally, I think they should push forward with the whole "zombie apocalypse" advertising campaign!

There are other non-electrified methods of producing keys. The A-1 Security Manufacturing Pak-A-Punch is a great example. This hand-punch system cuts types of automotive keys, plus Kwikset, Schlage, small format interchangeable core and Master. It's hard to beat the versatility for the price.

Let's not forget our friends at Pro-Lok who make the line of Blue Punch Key Machines. Per their website, "these dedi-



**Figure 3.** A manufacturer in the United Kingdom called Keyosk makes a hand-crank key duplicator called the Breeze Dual Power Key Machine TM1015.

cated machines are designed to quickly and accurately provide factory original keys at the speed of a key duplicator." They're being modest. I've used these machines, and I find them to be *faster* than a duplicating machine.

Now keep in mind that these are dedicated machines, which means that they are manufacturer key system specific, so be sure to purchase the punches that you figure to be the most useful to your

business before the tightest ship in the shipping business runs aground. But look at all the key systems they cover:

- Arrow Flex Core
- Corbin System 70 (Most keyways in the 59/60 family)
- Dexter/Master
- Falcon Weiser
- Hager
- InstaKey
- Kwikset





**Figure 4.** The A-1 Security Manufacturing Pak-A-Punch system cuts types of automotive keys, plus Kwikset, Schlage, small format interchangeable core and Master.



**Figure 5.** Pro-Lok makes the line of Blue Punch Key Machines, which are designed to quickly provide factory original keys at the speed of a key duplicator.

- Marshall Best
- Medeco 07 and 14 Degree
- Schlage
- Small format interchangeable core (aka: BEST) A2, A3 and A4

These machines are tough and highly accurate. Oh, and electricity be damned. Take that, Big Electricity.

## Drilling

Ah, the ubiquitous drill/driver. In the hands of a skilled technician — such as a locksmith — it's a rather fine apparatus of time-saving efficiency. In the hands of a general contractor's day laborer who doesn't know the first thing about setting a clutch, it's the perfect implement to make every single screw they install a *one-way* screw.

But how do you drill holes when there's no power? You better "brace" yourself for the answer. (Pun fully intended.)

A brace and bit is a hand tool used to drill holes, usually in wood, but you'll get similar results drilling plastic. Pressure is applied to the top, and the tool is rotated with a U-shaped grip. So, you think

that they're not made any more? Think again. *Figure 6* shows a carpenter's brace offered by a company called Lehman's (non-electric.lehmans.com).

Remember the old hand drills? (Sometimes called an "egg beater" drill, or a pinion drill.) They can still get the job done for small holes (*Figure 7*).

Of course, we can't forget the old push drill. Most of us are most familiar with the Yankee Push Drill. Some models can also accept screwdriver bits. These drills are great because they can fit easily into a tool pouch or box. I used a version from Craftsman for years until they stopped making the bits for it.

## Bartering

Because the power is out on a long-term basis, new local, micro economies will emerge out of necessity. Naturally, the credit/debit system will cease almost immediately. So, if the opportunity presents itself and you find that your favorite mega-mart is still processing credit/debit payment, buy as many supplies as you can fit into your vehicle. You very well

may never be billed for it once Golden Corral...for Zombies opens for business.

Next on the payment agenda is cold, hard cash. Cash will be king, at least in the short term until people realize that it, too, has no real value in the new economy. (You do have a supply of emergency cash on hand, right? And I'm not talking about \$100-200 in chump change. I'm talking about a serious stack of Benjamins.) Remember that our monetary system works in this country because it's backed by the full faith and credit of the United States. That's fine insomuch as "we the people" have faith in the monetary system. No faith in Uncle Sam's ability to cover his nut? No value to cash. It's that simple.

So, what's a hungry locksmith to do? I have one word for you: bartering. Essentially, there are two types of bartering: bartering supplies and bartering services.

Now, take a moment to think about what supplies you may have on hand that would be worth something as bartering fodder. A bar soap sure is cheap now, but imagine a world where soap is hard to come by. Making lye soap by hand isn't





**Figure 6.** This image shows a carpenter's brace offered by a company called Lehman's (non-electric.lehmans.com).



**Figure 7.** "Egg beater" hand drills, or pinion drills, can still get the job done for small holes.

difficult, but it's still time consuming. What's that case of soap worth — that you just found in your stock room you forgot you bought at Costco last year — at Barter Town? How about that five-gallon of bucket screws you keep meaning to take to the scrap yard? It could *literally* be worth more than gold, ounce for ounce, with the lights out for a year or two.

Speaking of screws, how many screwdrivers do you have? Now, how many do you really *need*? There will be a very high value to hand tools once the Duck Dynasty flickers off for the last time. Maybe you should sell those extra tools at your year sale next time. This could be a time when hoarding is a good thing. You never know.

But I think that bartering *services* will be our calling card. An hour of skilled labor will be very valuable, and as skilled craftsmen we have a lot to offer relative to our expertise. But, also keep in mind that the very skills that make us good locksmiths — and by that, I mean our extensive experience with hand tools — is also what makes us valuable for other craft services. We take these skills for granted. Working with hand tools is second nature to us. But people unfamiliar with the efficient and safe use of tools will need folks like us for services they can't perform themselves, that's for sure.

Keep an open mind to other services you can barter.

Sorry professional bloggers, stock market day traders and rubber duck collectors: Your skills won't be of much value in a post-apocalyptic world.

But there are some things to remember on your horse-and-buggy ride to Barter Town:

- Never go alone. Always have a friend there to watch your back
- Keep your stash location and your available inventory a secret. You don't want your customer to return with their friends to relieve you of your surplus material. Related: How much or how little you have on hand of a product could affect your negotiations.
- Don't show any desperation during bartering, as this makes the price of what you're in need of skyrocket. Keep calm and don't make potential trading partners agitated. Hopefully, both parties can walk away feeling that they got a fair deal in the trade.
- There's a saying in the prepper universe that most bartering will involve either "beans or bullets." Having said that, don't barter weapons or ammunition if possible. You don't want Barter Town to turn into the OK Corral

during your swap meet.

So, there you have it. I've had a little fun (if you want to call it that) painting a post-apocalyptic world full of locksmiths running around plying their trade — minus electricity — to put food on the table. But what I really want you to think about is this: How will you and your business survive after a long-term natural or man-made disaster?

Business continuity planning. Give it a second thought... and "prep" accordingly. ☺



**Vernon Kelley, CMIL, CPL, CFDI, ICML, IFDI,** has been involved in the locksmith & security industry since 1989, and is a licensed locksmith

in the State of New Jersey. A noted instructor and editor, he's co-author of the book, *Institutional Lock Shop Management*. Vernon has served on the ALOA board of directors, and he is currently the first trustee of ALOA Institutional Locksmiths and director for the ALOA Scholarship Foundation. A recipient of the prestigious Lee Rognon Award, as well as the Robert Gress Award, Vernon is the Supervisor of Access Control at The College of New Jersey.



# 2007

## HONDA FIT

### DOOR PANEL

AND

### LOCK REMOVAL



**Stacy Hetchler, CAL**, gives you the  
step-by-step process for this job.



Figure 1



Figure 2

**Figures 1-4.** Take out the screw and push to the right.



Figure 3

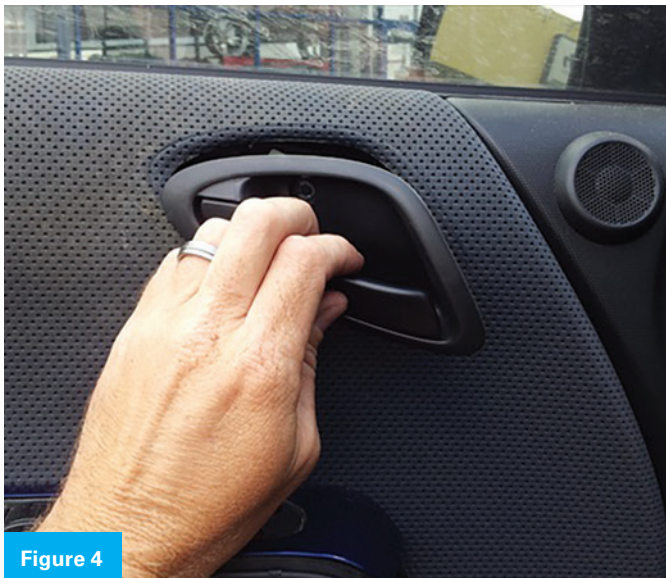


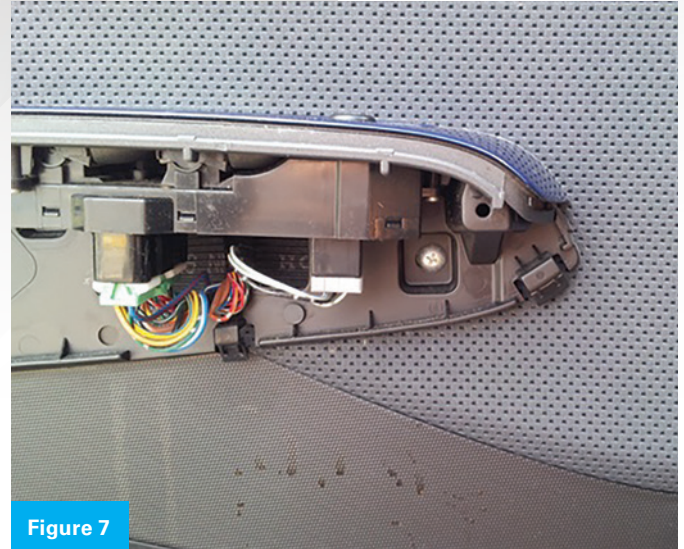
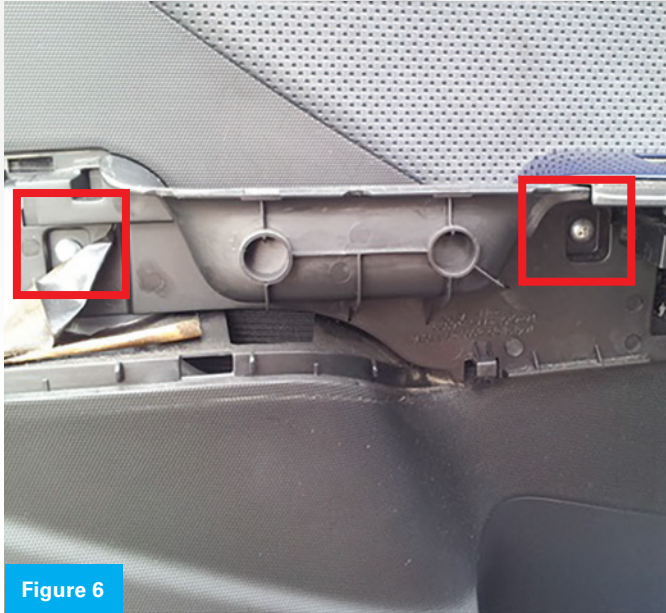
Figure 4



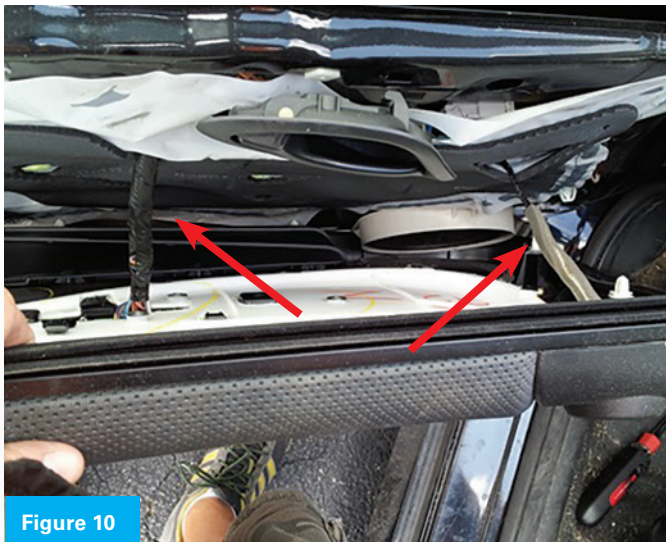
Figure 5

**Figures 5-6.** The armrest pops off and has screws below it.





**Figures 7-9.** There are three screws under the armrest to remove. Then, pop the lower right corner of the panel to start removing it.



**Figures 10-11.** The red arrows point to the cables to remove so you can remove the door panel.



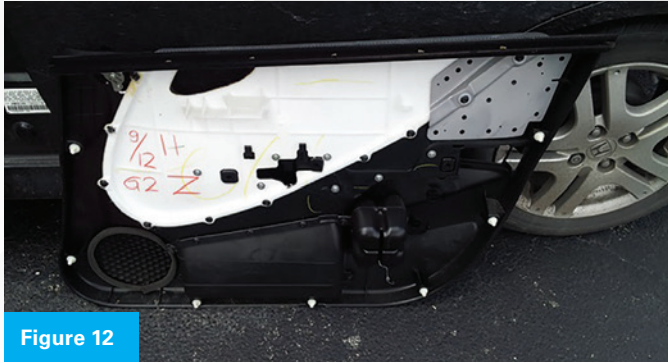


Figure 12



Figure 13



Figure 14. There are several things you will have to do from here to get the cylinder out.



Figure 15. This will all have to come out a piece at a time. You will need to remove the screws — which hold the lock prawl actuator — that the red arrows are pointing to. You will also have to remove some bolts.



Figure 16



Figure 17



Figure 18

Figures 16-18. Pop these two buttons out and remove them. Then, take the plastic housing out and set aside. This is a lock rod protection piece.



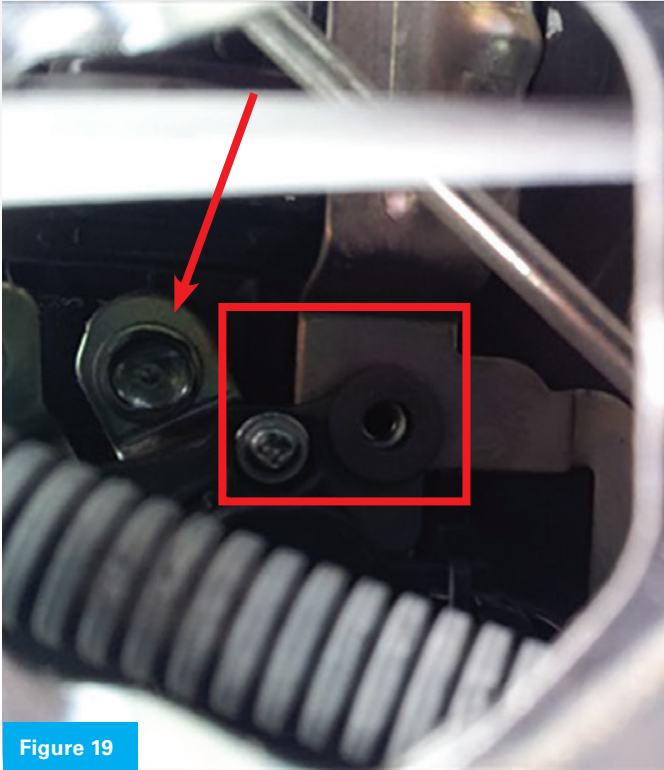


Figure 19



Figure 20

**Figures 19-20.** As you saw in *Figure 15*, the screw hold part of the lock prawl was here. Now you need to take the bolt off also. Take the bolt off, and the whole unit will come loose.



Figure 21

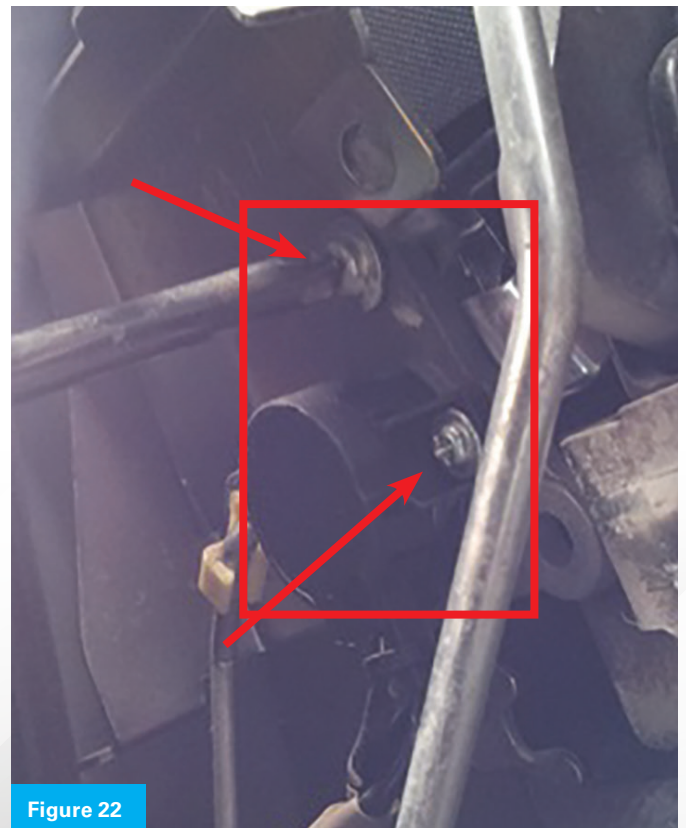
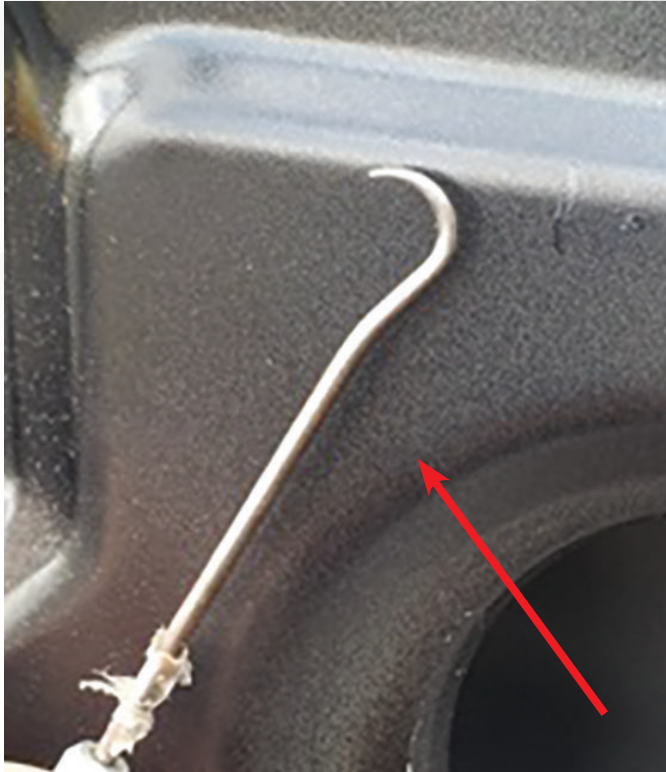


Figure 22

**Figures 21-22.** I am taking the two screws out here.





**Figure 23.** You will need to have a hook-type tool, such as the one shown here.



**Figure 24.** Spread the door handle a little more.



**Figure 25**



**Figure 26**



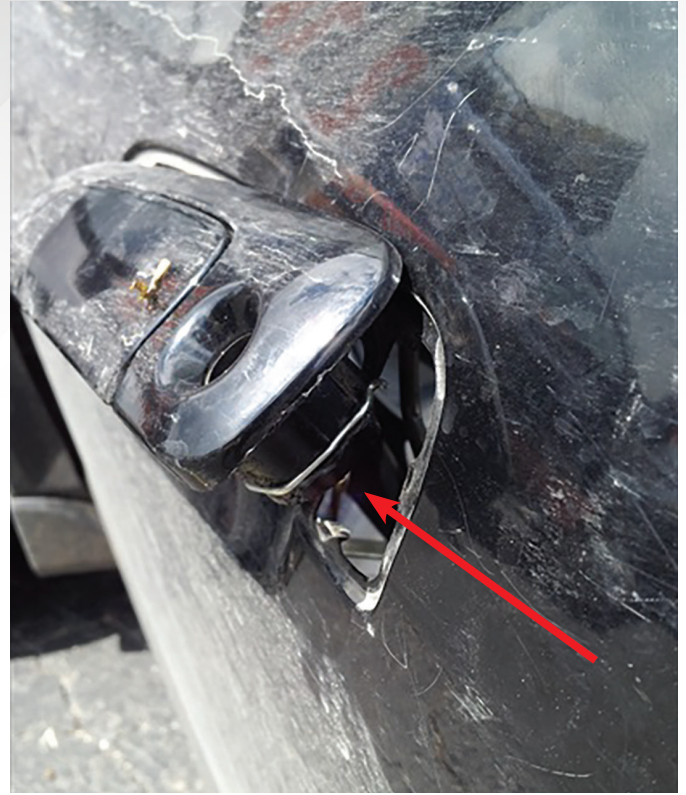
**Figure 27**

**Figures 25-27.** Once you have spread the handle enough, you can get the hook under the clip to pull it off; it will likely fall into the door panel. Take the lock cylinder out, and then put the clip back on so you can pop the cylinder back into place.





**Figure 28.** Snap the clip back into place.



**Figure 29.** It will look like this before you move on to the next step.



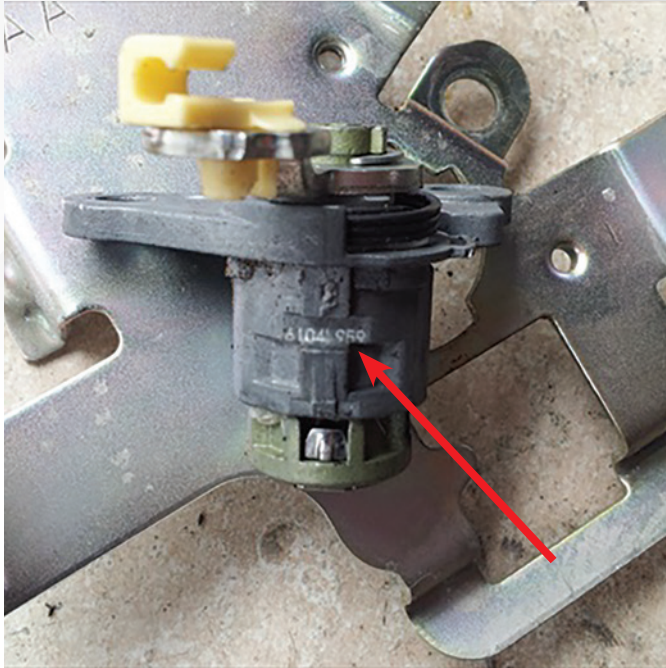
**Figure 30**



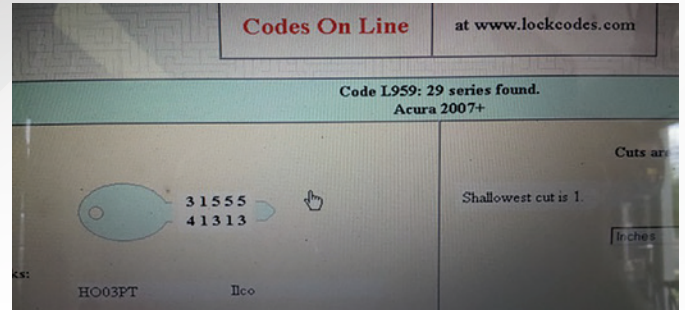
**Figure 31**

**Figures 30-31.** To remove this whole piece as you see it here, take the clip off. Then remove the Phillips screws and the three 10 mm bolts.





**Figure 32.** Once you turn the cylinder and take it out, you can then repair, re-pin or whatever else you need to do. The key code is right there.



**Figure 33.** Here, you can see we ran the key code on the wonderful Codes On Line (\$59 per year at [www.lockcodes.com](http://www.lockcodes.com)) and put it all back together. Enjoy! ☺



**Stacy Hetchler, CAL**, has been a locksmith since 1995 in South Central Texas, focusing primarily on the automotive segment. In his limited personal time, he plays soccer and paintball, and flies helicopters while he listens to music. He teaches locksmithing for various associations, including ALOA. He adds, "All proceeds from my work go to my sweet daughter, Khoal, and my little man, Greisun — and of course my great and supporting wife, Candee."



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# CLARK SECURITY'S SHOW STOPPERS

**Greg Perry, CML, CPS,** discusses the Clark Security Products Midwest event and the products showcased there.

**C**LARK SECURITY PRODUCTS, A DIVISION OF ANIXTER, OFFERS EDUCATIONAL seminars and product showcases around the country. This year's Midwest seminar was held in Northbrook, IL, (near Chicago), not far from where the 2017 61st Annual ALOA Convention & Security Expo will be held. The regional show offered classes on business and technical topics and showcased products. Clark Security Products has a sister company in the Anixter family: Tri-Ed, an alarm and access control distributor that expands their products for the locksmith.

The Clark Security Products Seminar and product showcases are good regional events for getting just a small preview of what you will see at the ALOA Convention & Security Expo. Be sure to attend the 2017 ALOA Convention in Rosemont, IL, to get the full industry experience. Getting together with fellow locksmiths is a great way to network, learn from each other and make friends with some great people.

The social events began every morning with Clark providing a light breakfast

and then continued over lunch for those that registered for classes all day. Friday night, they hosted an evening cocktail party attended by both locksmith attendees and exhibitors.

The show floor is always interesting. Meeting the exhibitors and seeing new products is a great way to increase your sales and knowledge about products you currently sell. This year's show featured exhibitors showing everything from automotive products to tools and safes.





**Figure 1.** Shown is the Clark Security Products/Anixter headquarters in Chicago. They have the only UL laboratory that can list electronic access control systems using multiple manufacturers of equipment. As an example, you can have a UL listed system using a Kantech control, Altronics power supply, Command Access switches and Von Duprin electric strikes.



**Figure 2.** The evening reception room was filled with old and new friends catching up on each other's lives and swapping lock stories.



**Figure 3.** The crowd lined up to wait to enter the show floor.



**Figure 4.** Just a few minutes after opening the doors, locksmiths and exhibitors were happily greeting each other.

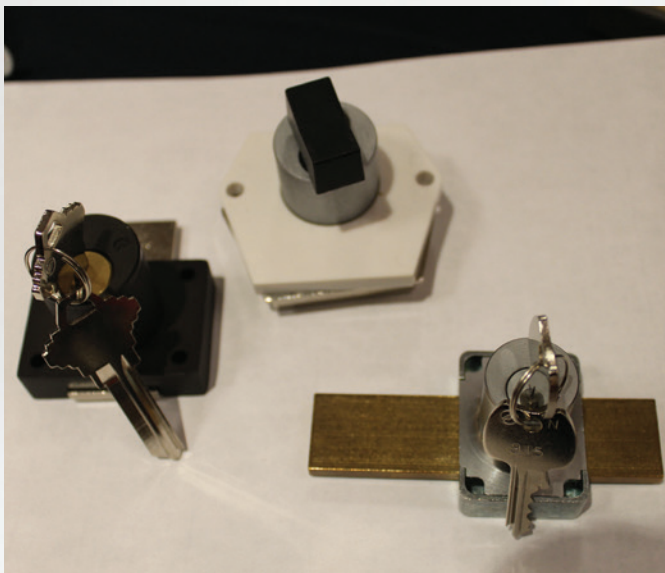




**Figure 5.** The first product to catch my eye was a quiet hospital push pull latch from ABH. Many of you may not realize how important it is to reduce the noise in hospitals — that is, unless you’ve been a patient. These locksets operate at about 1 decibel compared to 30 to 40 decibels for other brands. This means most of us cannot even hear them; this is great for sleeping patients.



**Figure 6.** Clark offers a cloud-based access control system from PDK. They have expandable door solutions beginning at just one door. Cloud-based means a much lower investment and the ability for the manufacturer to host the software, so you always have the most up-to-date software and firmware for your systems. The small size means you can install it almost anywhere.



**Figure 7.** Olympus Lock out of Washington State offers some great pin tumbler cabinet lock options. Something I hadn’t seen from them before is a 10b, duranotic or dark brown finish. They’re also producing a longer bolt for some of the common door and drawer locks. Having made a few ourselves out of brass bar stock, this is great news and definitely a great time saver. Olympus also seems to have the widest selection of spacers for a wide variety of locks.



**Figure 8.** A product you’ll likely only see at a Clark or alarm show — but quite useful to many of us, especially in the more rural areas — is a cell signal booster. SureCell won’t provide a signal where nothing exists, but with the right antenna and location, they can boost all the carriers’ signals to, at a minimum, an acceptable level for most. This means voice, texting and cellular alarm backups can now be used in metal buildings or on remote ranches. SureCell offers many different modules and a survey kit, including a signal meter to assist you with selecting the most appropriate unit to meet your customer’s needs. They aren’t cheap, but for many businesses and people with large ranches, it can be the only way to provide a cell signal.





**Figure 9.** Lucky Line has always offered a wide range of key accessories. If you have a retail storefront, placing them near the cash register can add some profit to your operation with very little effort on your employees' part.



**Figure 10.** Von Duprin, a division of Allegion, has always produced some great exit devices, but the electronic access control technician will tell you the electric latch retraction model — or EL — can be a bit power hungry. Most electrified locks such as strikes and cylindrical locks draw or consume around 1/4 to at most 1/2 an amp to operate. The EL devices require 16 amps of inrush current. This is 48 times more energy to retract the latch, but once it's retracted, it only takes about 1/3 of an amp to hold it retracted. This previously meant a special power supply to operate the device, and special means more money. They have now come out with a motorized version that draws about 1 1/4 amp, meaning a much less expensive and far more common 2-amp power supply that can operate the exit device.

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Figure 11



Figure 12

**Figures 11-12.** CompX showed up with a product that is so brand new that they hadn't even shown it to their sales staff at the time of the show. It's a new card access/electronic refrigerator door lock. Although it will lock up your beer — and for some of you, that's important — think about all the drugs at hospitals, doctors' offices and pharmacies that not only must be kept chilled but also secured. It reads standard and IClass proximity cards. Being able to electronically log anyone who accesses the cabinet and not relying on someone to write it down is important for many customers.



Figure 13



Figure 14

**Figures 13-14.** LockKey USA makes a variety of push-button locks. They have a locker lock that will make the annual job of changing locker locks and having to track where every lock is randomly moved to for schools a thing of the past. These locks are preprogrammed with a batch of combinations. Instead of the maintenance staff having to go out every summer to move locks around, the software simply assigns the new or next combination. The lock knows the current combination and the next one. When the new one is entered, it stops allowing access with the old code. It's an initial expense, but within a few years, the schools will have recouped the labor cost and then continue to reap the cost savings.





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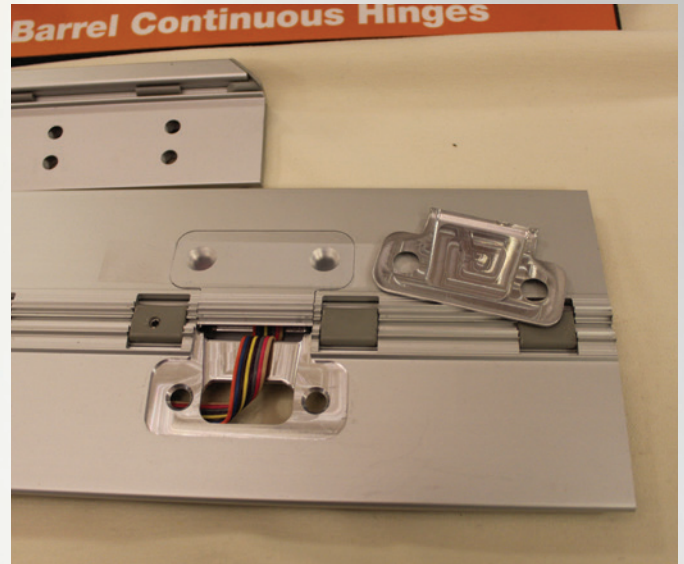
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# Discover the Difference





**Figure 15.** Meir Products is another company (under the Clark sister company Tri-Ed) that offers products locksmiths can sell. One product I noticed right away is a lockout cabinet. It looks like an ammo can painted yellow and has holes drilled to place multiple padlocks on it locking the cover shut. The concept is that one lock is placed on a lockout device, and the key is dropped in the can. All the craftsmen working on the project then lock their locks on the can. The single key cannot be accessed until everyone has removed their lock, preventing someone from accidentally starting the equipment and injuring — or worse, killing — a worker.



**Figure 16.** Select Products makes a great continuous geared hinge. They now offer an even better product for access control professionals. In the past, they placed wires through a bearing. This was an issue for the size of the wires and also how much it flexed the wires. Moving the location to a section of the gear that has been removed allows the wire to move more freely. This reduces the amount of wire flex and allows the wires to sit flat next to each other instead of bundled, so the wires can be larger. Other brands remove a section of the hinge to install wires, making them a three-piece hinge requiring you to align them properly, which could be an issue.



**Figure 17.** STI is another cross-over company. The company started because a school principal was tired of kids pulling fire alarms. Over a few beers on a weekend, he developed an alarm with a cover. Since that time, the company has added a variety of covers made of both polycarbonate and wire cages to protect all kinds of devices, from fire alarm pull stations and thermostats to fire alarm strobes and horns.

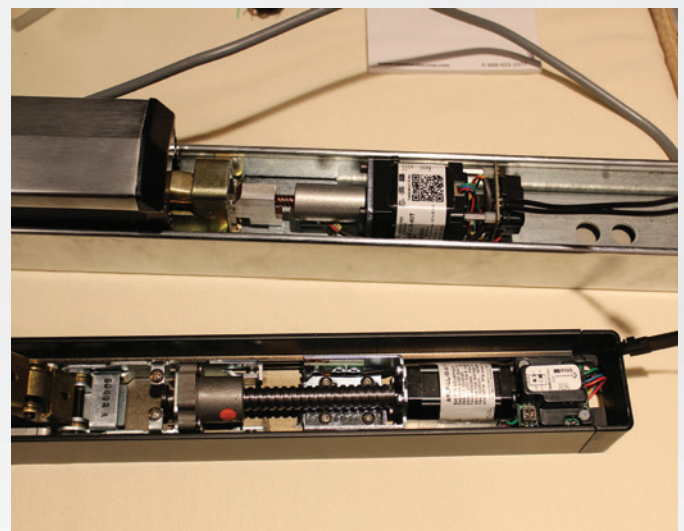




**Figure 18.** Corbin Russwin has also gone the way of motorized latch retraction for their exit devices. They still offer both solenoid and motorized versions, but expect that to change to just motorized in the near future.

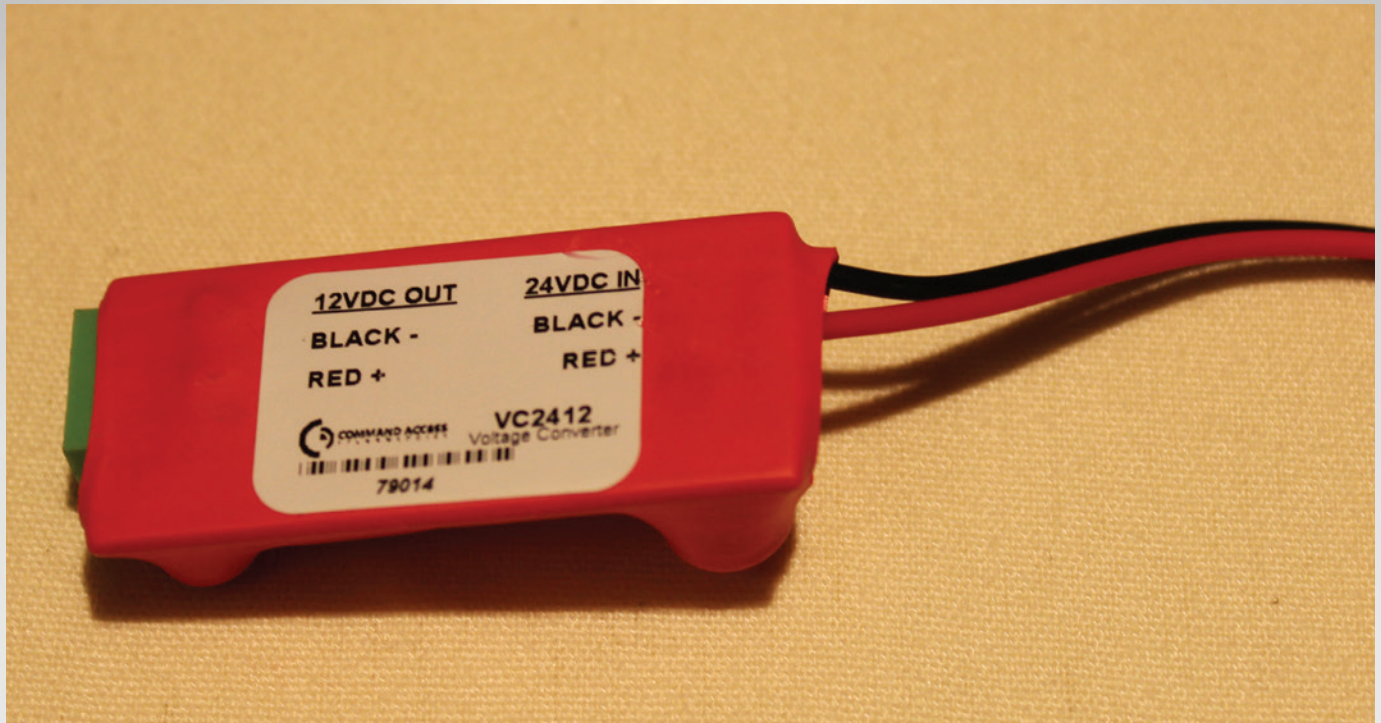


**Figure 19.** HPC Deadbolt Secure is a flip lock that prevents the thumb turn on a deadbolt from turning. According to the exhibitor, Florida requires all rentals to have a lock that secures the door on the inside. This product meets the requirements.



**Figure 20.** Command Access offers numerous retrofit kits for electrifying most types of locks and exit devices from many different manufacturers. The Acme motorized screw driver seen in the upper unit has been their standard for years, but it's only about 65% energy transmission effective, requiring a larger motor than some exit devices can accommodate. Adams Rite devices just don't have enough room for the larger motor. Going to a smaller motor meant coming up with a new, more efficient drive system. As might be expected, they found a solution in the ball screw drive system. It is about 90% efficient. Expect to see it in future applications that don't have room for the larger motor.





**Figure 21.** Command Access also has a neat module to change 24 volts to DC to 12 volts DC. This is great when retrofitting or upgrading a panel from 12 volts to 24 volts, or if you get to a job site expecting a 12-volt power supply only to find out it's 24 volts. The cost to go back to your shop and get the correct strike — or worse, have to come back another day after reordering the correct strike or lock — can be huge. What about the job where the customer sends you a picture of the strike so you know which model but not the voltage, and the job is an hour's drive away? Not a problem; order it in 12 volts and take a module with you.



**Figure 22.** Beau Edelen, Clark's regional vice president of sales/MC for the show, and Mary, Clark's Chicago branch manager, gave away door prizes.

This is just a small taste of the many products offered by Clark Security Products. Sometimes you'll only see specific brands at distributor-based or regional shows, making them a great place to go. The regional shows are also a smaller-scale sample of what's available to see at the ALOA Convention & Security Expo coming to Rosemont, IL (near Chicago O'Hare Airport) in July. Clark will be there, along with hundreds of exhibitors and fellow locksmiths. I hope to see you there. And if you can't make it to Rosemont this year, the biggest Clark Show is in October in Anaheim, CA — or go to one of the other regional or distributor shows. 📍



**Greg Perry, CML, CPS,** is a certified master locksmith and certified professional safe technician, working in all phases of locksmithing. He has taught various locksmith topics for 10 years. He currently works in the public sector as a locksmith. He has worked in the hardware industry since 1975 in wholesale, retail and institutional settings. He has written extensively for locksmith magazines and is a five-time *Keynotes* Author of the Year. Any opinions expressed by Greg in his articles are his alone and do not reflect any official government position.



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**Figure 1.** The arrow is pointing to what appears to be another cam under the existing cam.



**Figure 2.** This photo gives a side view of the cams.

# The Answer/ Reorganization Revisited

**Tony Wiersielis, CPL, CFDI**, explains what to do when there is no emergency key available, plus gives information on tool organization for jobs.

**A** FEW WEEKS AGO, I GOT A call from the head of maintenance for a local school district, a fellow named Mike. He had several handicapped bathrooms with Best hotel function mortise locks, and he had a bit of a problem.

These bathrooms were close to the gym/auditorium entrance. Whenever there was an evening event — such as a basketball game or play — a lot of the students' family members would attend, especially grandparents. Some of them were elderly and needed canes or walkers to get around.





**Figure 3.** This image shows what happens when the emergency key is used.



**Figure 4.** Depicted is a Best cylinder wrench and the black plastic piece that comes with each mortise lock.

Mike was at one of the games and noticed someone with a walker going into one of these bathrooms. He heard them throw the deadbolt and then realized that he wasn't sure if his master key would open the door in case someone fell or got sick.

The next morning, he tried it and couldn't open it. He called me and said that he'd gone through every key in his cabinet, and nothing worked. The locks had been installed a few years before he took over. Could I please come and figure this out for him?

So you know what I was dealing with, this is how this version of hotel func-

tion works: The outside knob is always locked, and you retract the latch with the key. Once inside, the guest can lock the deadbolt using the thumb turn. Once the deadbolt is thrown, neither the guest key nor the master key will open it.

### Understanding the Emergency Key

If someone is sick, hurt or possibly dead in the room, management uses a special emergency key that physically overrides the cylinder. I don't have one of these keys to show you, but it's not difficult to understand if I describe it to you.

Take a look at the tip stop on a Best-

type IC key. Notice that the tip of the key projects forward from the stop a bit. The emergency key for this lock function is a special blank with an extended tip that's much further forward of the stop than a standard blank. The tip will extend out the back of the core when the key is fully inserted and able to turn. Usually, this blank is cut as a GM or higher, depending on the system. Regardless of the length of the tip, the key is indexed from the stop.

To get the idea how this works in practice, you need to understand what makes the cylinder different from a standard mortise cylinder. Take a look at *Figure 1*. Notice what appears to be another cam





**Figure 5.** Pictured is something made for each member of the maintenance crew using a key blank and the plug from a discarded core.



**Figure 6.** The author's handmade tool is especially useful for 9K Series intruder function cylindrical locks for which you need to time the cores when you put them in. Take a throw member and spread the legs apart a little. It won't drop out inside the lock while you're working, like shown here.

under the existing cam; the arrow is pointing to it. As an aside, look down at the lock, to the right, and you'll notice an indicator button just below the cylinder hole. This lets you know that the room is occupied and dead bolted.

*Figure 2* is a side view of the cams. The bottom cam is designed to limit the travel of the main cam. See the pin the arrow is pointing to? That pin will not allow you to turn the key to unlock the dead bolt. There's one on either side of the cam, but only one is used on each door.

*Figure 3* shows what happens when the emergency key is used. The cylinder is specially designed so the cams are spring-

loaded. When the key stop is seated in the core, the extended tip projects out the back and pushes both cams out of the cylinder.

This allows the bottom cam — previously blocked from turning — to ride over the blocking pin and retract the deadbolt to gain entry. Once the emergency key is removed, everything returns to its normal state, and standard guest keys can be used.

Aside from the fact that Mike didn't have any emergency keys at all, I found that that particular keyway was fairly new, and there were no emergency blanks available for it yet. This was a serious

problem for him, but I was able to solve it.

*Figure 4* is a shot of a Best cylinder wrench and the black plastic piece that comes with each mortise lock. For the uninitiated new guys, the figure-eight end is inserted into mortise cylinders and gives you a temporary handle to screw them in. The other end can be used to test the operation of the lock without a core.

You can use the test end of this tool in a hotel function cylinder to override the cam stop simply by pushing it and turning it once you've pulled the core out. Each of Mike's crew carried a control key on their key ring, but they didn't have even one cylinder wrench. The black



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Figure 7



Figure 8

**Figures 7-12.** Shown in these images are several VETO Pro Pac tool bags: LC (*Figures 7-8*), the Tech Pac (*Figures 9-10*) backpack and the MC (*Figures 11-12*), which is a smaller version of the LC, the author's first bag.

plastic thumb turn packed with the lock won't work for this because it bottoms out and can't push out the cam.

Figure 5 is something I made for each guy in the maintenance crew using a key blank and the plug from a discarded core. This is basically the test end of the Best cylinder wrench, without the bulk and weight of one. I'd love to be able to say I thought of this, but I didn't; a friend gave me one a few years ago.

Because the maintenance guys already had a control key, all they needed in an emergency was to pull the core out and use this special tool to unlock the door by pushing in the cam. Mike was delighted

that there was a way out of his dilemma, and I got to feel like I saved the day.

### Making Your Own Tool

Even if you have a cylinder wrench, you might want to make one of these for yourself. You can put one on your key ring if you work with Best-style IC cores a lot and always have it with you.

This is especially useful for 9K Series intruder function cylindrical locks for which you need to time the cores when you put them in. Just take a throw member and spread the legs apart a little. It will be a little more difficult to put into the plug, but it won't drop out inside the

lock while you're working. Figure 6 is what I mean.

Here's how to make one: Get the plug out of a discarded core, a matching key blank, a 9 pin and some Krazy Glue. Cut the first two cuts to 0 and 9. Coat the tip of the blank with glue and shove it into the plug. I line up the second cut to the fifth or sixth chamber, drip on glue and insert the 9 pin into the chamber. Spread a little more glue on the bottom of the plug and let it dry for a while.

I cut the second cut and add the pin as an assurance that the plug isn't likely to fall off the blank on my key ring. Work fast and wear gloves when working with





Figure 9



Figure 10

Krazy Glue. You might consider making two of these and gluing a throw member into one of them so it never comes out.

### Tool Organization Revisited

A few years ago, I wrote some articles on basic tools for locksmiths and tool organization and storage. In one of these articles, I raved about some tool bags I had discovered, made by VETO Pro Pac. VETO stands for vertical tool orientation, which is how the tools are stored in the bags.

I felt then, as I do now, that these are the best tool bags I've ever owned, and I've tried just about everything else. I've acquired a total five of their bags/pouches since then. Nobody gave these bags to me

so that I'd write about them. I bought them because I like them, and I think you'll like them too.

I won't go into great detail about the bags; this article is about the way I've decided to use them that I feel is right for me. I urge you to go to [vetopropac.com](http://vetopropac.com) and watch the videos for the bags that interest you. If you decide to order, mention you read about it in Keynotes.

The models that I have, outside and inside, in *Figures 7-12*, are the LC, the Tech Pac backpack, and the MC, which is a smaller version of the LC, my first bag. I also have one of the cargo totes and a tool pouch.

I call the backpack my "Manhattan" bag. I got it because 95% of my jobs in

Manhattan don't come with parking for cars, much less full size vans. There's commercial parking areas on various streets, but I usually find myself parking and walking 3-6 blocks to the job; that's just how it is.

That's the reason why I started thinking about how I could better use these bags. I would leave the backpack empty and fill it up with tools when I needed it. This was time consuming, and I often found that I'd forget to pack something and have to walk back to the truck. This was even more of a problem if the van was buried in the bowels of an underground parking garage.

Some of my stuff is organized according to the "kindergarten model," which





Figure 11



Figure 12

means all the art supplies are in the art area, or the blocks are in the block area. In my case, the router and every bit and accessory I regularly use are in one bag. My 20-volt bandsaw, pin kits, Dremel and others tools are like that. In other words, everything you need to do a certain activity is where you need to do it, all the time.

The two keys to this are as follows: Everything needs to have a “home,” and whatever you use needs to go “home” when you’re done with it. I’ve had issues with both of these tasks in the past, especially the hand tools. I decided to do something about it.

I’ve always had the idea in my head that I wanted to set up purpose-driven tool bags for the different jobs I do. Some of this is already done; for example, in my Dremel

kit or router bag. I just grab it when I need it. The hand tools? Not so much.

I never forgot an article I once read about a carpenter’s tool case made of plywood. Each of the tools hung on an outline of itself so you’d know if it were missing. It was designed that way because of a study done by a plywood manufacturer’s association. The study found that carpenters spent more time hunting for a tool than using it. I don’t know how many of you can relate to that, but I certainly can.

I started to realize that a lot of my power and specialized tools were just stuffed in the back of the van and not always in the same place. I would joke that “I found Jimmy Hoffa in the back of my truck,” but that wasn’t funny anymore. I also felt that picking and

choosing hand tools out of the bags was defeating the purpose of having them.

I thought about this for quite a while and came up with a plan to use wasted space in my van, thereby creating “homes” for more tools. Another plan is for getting my tool bags to the “grab and go” stage and keeping them that way. In my next article, I’ll share with you what I did to fix the issues. ☺



**Tony Wiersielis, CPL, CFDI,**

has more than a quarter century of experience and has worked in most phases of the trade throughout the New York metropolitan area. He was named *Keynotes* Author of the Year for 2016.





# ALOA

ALOA Security Professionals Association, Inc.

# Membership Application

## CANDIDATE PLEASE TYPE OR PRINT

Name: ☐ Mr. ☐ Mrs. ☐ Ms. First \_\_\_\_\_ Last \_\_\_\_\_ MI \_\_\_\_\_ Designation \_\_\_\_\_

Business Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_ Country \_\_\_\_\_

Work Phone \_\_\_\_\_ Home Phone \_\_\_\_\_ Fax \_\_\_\_\_

Email Address \_\_\_\_\_ Website \_\_\_\_\_

Date of Birth (required) \_\_\_\_\_ Place of Birth \_\_\_\_\_ Social Security # (required) \_\_\_\_\_

US Citizen? ☐ Yes ☐ No If No, citizen of what country? \_\_\_\_\_

ALOA occasionally makes its members' addresses (excluding phone numbers and email addresses) available to vendors who provide products and services to the industry. If you prefer not to be included in these lists, please check here: ☐

## PROFESSIONAL INFORMATION

Please check the description that best describes you (check all that apply)

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Locksmith Owner     | <input type="checkbox"/> Automotive            | <input type="checkbox"/> Employee Technician              |
| <input type="checkbox"/> Electronic Security | <input type="checkbox"/> Security Professional | <input type="checkbox"/> Mechanical Door Locks & Hardware |
| <input type="checkbox"/> Institutional       | <input type="checkbox"/> Safes                 | <input type="checkbox"/> Investigative                    |
| <input type="checkbox"/> Other _____         |  |   |

Are you licensed to perform Locksmith/Access Control work in your state? ☐ Yes ☐ No If Yes, License # \_\_\_\_\_

Business License # \_\_\_\_\_ EIN # \_\_\_\_\_

Any other license held by applicant (Contractors Lic., Low Voltage) \_\_\_\_\_

Any other states you do business in and licenses held in those states \_\_\_\_\_

List all phone numbers used by your company/companies: \_\_\_\_\_

Number of Employees \_\_\_\_\_ ☐ Store Front Business ☐ Mobile Only

How did you learn locksmithing/access control? \_\_\_\_\_

How long have you worked in the locksmithing/security industry? \_\_\_\_\_

ALOA member Sponsor Name/Who introduced you to ALOA?

Sponsor Name (Required) \_\_\_\_\_ ALOA Number \_\_\_\_\_ Years known \_\_\_\_\_

Have you ever been a member of ALOA before? ☐ Yes ☐ No If Yes, when? \_\_\_\_\_ ID #, if known \_\_\_\_\_

Are you a member of any local locksmith association? ☐ Yes ☐ No If Yes, name of association: \_\_\_\_\_

Give the names and phone numbers of two industry-related references:

Name \_\_\_\_\_ Company \_\_\_\_\_ Phone Number \_\_\_\_\_

Name \_\_\_\_\_ Company \_\_\_\_\_ Phone Number \_\_\_\_\_

**IMPORTANT:** Have you ever been convicted of a felony? ☐ Yes ☐ No If yes, please give details on a separate sheet.

All convictions are reported to the Advisory Committee for review.

A routine background check is performed on all new applicants, unless you live in a State in which passing a background check is a part of the licensing requirements. Non-US citizen background checks are required. If you live in a country that does not allow third party background checks, you will be required to submit an authentic report upon request (no copies/duplicates allowed) before final membership approval can be granted. A copy of your business permit/license, license number, business card, company letterhead or suitable proof of employment in the locksmith/access control business must accompany application.



## TYPES OF MEMBERSHIP AND REQUIREMENTS

Check only one box from the categories listed below:

### Active Membership

Persons actively engaged in the locksmith/access control industry for a minimum of two years and have achieved one of ALOA's recognized program designations.

- |  |       |  |       |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$235 | <input type="checkbox"/> I elect to Go Green | \$215 |
| <input type="checkbox"/> International         | \$255 | <input type="checkbox"/> I elect to Go Green | \$185 |

### International Association of Investigative Locksmiths Membership

Must be an ALOA Member in order to join the IAIL.

- |  |      |
|--|------|
| <input type="checkbox"/> US and US Territories | \$50 |
|--|------|

### Probationary Membership

Persons undergoing training to qualify as an Active member, who have not received one of ALOA's recognized program designations. No person shall be a probationary member for more than three years.

- |  |       |  |       |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$235 | <input type="checkbox"/> I elect to Go Green | \$215 |
| <input type="checkbox"/> International         | \$255 | <input type="checkbox"/> I elect to Go Green | \$185 |

### Probationary Membership – No Sponsorship Required

Persons undergoing training that are new to the industry and do not know any Active member for sponsorship. Probationary period extended from 90 days to one (1) year. Probationary status lifted if sponsor acquired within year. Must obtain license if residing in State requiring licensure. A second background check will be performed by ALOA after 2 years of the 3 year maximum term. Any violation of ALOA Code of Ethics during probationary period will result in immediate termination of membership.

- |  |       |  |       |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$235 | <input type="checkbox"/> I elect to Go Green | \$215 |
| <input type="checkbox"/> International         | \$255 | <input type="checkbox"/> I elect to Go Green | \$185 |

### Allied Membership

Persons whose position in the locksmith/access control industry relates to locksmiths, and cannot qualify for any other class of membership.

- |  |       |  |       |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$235 | <input type="checkbox"/> I elect to Go Green | \$215 |
| <input type="checkbox"/> International         | \$255 | <input type="checkbox"/> I elect to Go Green | \$185 |

Note: Your application will be processed with a 90 day waiting period.

Any institutional locksmith not using his/her work address must submit a letter from employer stating that you are an institutional locksmith.

## DUES AND FEES

An application fee and the appropriate dues must accompany the application in order for processing to begin. The dues amount for residents of the US and US Territories include a \$30 Legislative Assessment Fee (\$205 Dues and \$30 Legislative Assessment Fee=\$235). Application Fees Schedule:

US and US Territories .....	\$70
Canada, Denmark, Ecuador, New Zealand .....	\$160
Australia, Bahamas, Barbados, Belgium, Belize, Bermuda, China, France, Haiti, Philippines, UK.....	\$210
Israel, Korea, Papua New Guinea, Saudi Arabia, United Arab Emirates.....	\$360

Applicants from countries not listed must submit background check and report from local Law Enforcement with application.

## FINAL CHECKLIST

- |   |       |
|---|-------|
| <input type="checkbox"/> Required Proof of Employment in Industry | _____ |
| <input type="checkbox"/> Annual Dues Amount                       | _____ |
| <input type="checkbox"/> Application Fee                          | _____ |
| Total Amount Due  | _____ |

## METHOD OF PAYMENT

- ☐ Check   ☐ MasterCard   ☐ Visa   ☐ American Express   ☐ Discover

Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_ SEC \_\_\_\_\_

Print Name on Card \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

I understand and consent that in the course of reviewing this application ALOA may review publically available information for the purpose of verifying the information submitted and do a background check.

I certify that all statements are true and, if accepted as a member, I agree to abide by the rules, regulations, and Bylaws of ALOA, and further agree to adopt the Code of Ethics of ALOA as my own, and adhere to it to the best of my ability. Should my membership be discontinued, I agree to return my membership card and cease use of all ALOA insignia.

Signature \_\_\_\_\_ Date Signed \_\_\_\_\_

Dues, Contributions, Gifts are not deductible as charitable contributions for Federal income tax purposes. Dues payments are deductible as an ordinary and necessary business expense. However, please note that the Legislative Assessment Fee and donations made to the Legislative Action Network ARE NOT deductible as a charitable gift or business expense.

## Return to:

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# Meet the ALOA Education Staff

Get to know the Education Department and how they can help you as members.



**Jim Hancock, CML, CMST, ICML, CAL, CHI, CAI, Operations, Education and Certification Manager**

**How long have you been with ALOA?** I have been on staff for almost six years but have been instructing for ALOA since 1999.

**What was your background before coming to ALOA?** I was brought up and taught the business in my grandfather's shop. My grandparents raised me, and he taught me locksmithing beginning when I was 8 years old. I would work in the

shop after school and school breaks and just learned to love it. I learned from the ground up, meaning I swept floors and cleaned work areas as I learned to work on locks as well. After my grandfather passed away, I worked for several relatives — all in the locksmithing industry — until I moved to Austin, TX, to work at one of the largest and most respected companies in the business. I worked as a mobile service tech, then a dispatch supervisor and into mid-upper management. I was there 28 years before coming to ALOA.

**What are your job duties?** On the education side, I help associations and sponsors set up ALOA training at their facilities as well as schedule classes here in Dallas and at the annual conferences for ALOA and SAVTA. On the certification side, I oversee the PRP testing and have spent a lot of time recently ensuring the tests are upgraded and also developing and new tests. There are other duties on a daily basis as well but too numerous and boring to list.

**How do you help ALOA members?** We read their comments after classes and try to improve on areas of training that may be deficient so the training is the best possible. Again, we try to make the PRP testing relevant for anyone taking it by getting

the upgrades done and trying to offer new ways to take the exams. We also develop new training delivery for the members.

**What's your favorite part of your job?** I still love to teach, which I get to do on occasion. I also like developing new training and testing; it's a challenge. The most rewarding part is any time a member walks up to us at a conference or sends an email to say thank you for all the effort that goes into providing the training and certification. It is a monumental task on both fronts.

**What are your interests/hobbies outside of work?** Kids and grandkids always. I've been a musician since I was 14, so I still love playing and listening. I love doing the reclamation stuff; you know, buy something at a yard sale or flea market and recreate it into something totally different. And road trips... I like to take day trips to new and interesting places.

**What's one interesting thing about you that ALOA members may not know?** I have twin stepsons who are both professional opera singers and both very successful. One is in Vienna, Austria, and going to Switzerland later in the year for a two-year residency. The other is based out of the Santa Fe Opera and travels around the country to perform. In fact, about six weeks ago he was the second lead in a world premiere of *Riders of the Purple Sage*, adapted from the Zane Grey novel. Thirteen of Zane Grey's living relatives were in attendance, and we got to meet them. I'm a rock and roll guy but learning to love opera.





**Grey “Woody”  
Woodyear, CPL,  
CPS, CAI, CFDI,  
ALOA Assistant  
Education Manager**

**How long have you been with ALOA?** I’ve been with ALOA two years as of February.

**What was your background before coming to ALOA?** I have been a locksmith and safe tech for more than 30 years.

**What are your job duties?** As the assistant education manager, I do everything my boss asks as well as take care of the building, the museum, prepare classes and materials for instructors, teach, etc.

**How do you help ALOA members?** Help is offered in the form of instruction on locksmithing, and I answer tech calls on safes.

**What’s your favorite part of your job?** All of it. The most rewarding thing is working on the museum.

**What are your interests outside of work?** I have been a magician for 50 years.

**What’s one interesting thing about you that ALOA members may not know?** I was able to get on all of the Air Force One planes (both old and new) to do safe service and repair.



**Dawne Chandler,  
Education/  
Certification  
Coordinator**

**How long have you been with ALOA?** I have been working at ALOA for about ten months now, and every day has been a pleasure. I enjoy my fellow employees, and everyone is very dedicated to their positions here. We are

a bunch of characters, and I couldn’t ask for a better boss.

**What was your background before coming to ALOA?** I have been in administrative coordination for many different industries for many years. I have been exposed to the legal, medical, entertainment and now getting close to a year with the security profession. These many different trades all have a need for organization and responsibility, and I love being able to satisfy those needs with bells on.

**What are your job duties?** When someone first comes to ALOA and asks “how do I become a locksmith?” that’s where my job begins. I explain the many different parts that make up the security profession, where they can begin education and inform them on how to become certified — all of this to eventually land a perfect job or open their own shop, or who knows where they can go. It’s just a matter of getting on the road.

**How do you help ALOA members?** I am also the certification coordinator, and that allows me to help ALOA and SAVTA members learn more about certification and what it will take to help them succeed in their field. Anyone can obtain licensing, but it takes a specially trained individual to become certified; one who has learned through education or experience how to be the best locksmith he or she can be.

**What’s your favorite part of your job?** Really, my favorite and most rewarding part of my job is when I hear someone say — after I have talked with them about their educational opportunities — “I know what I am going to do now.” I try hard to listen to what they want and need and then help them develop a game plan for success. Whether that happens to be through training at ALOA or at least knowing what steps they need to take to become good at this trade, I help them “stop planning and start doing.”

**What are your interests outside of work?** Outside of work, I spend a lot of time with my family and friends. Whether heading to the lake for the weekend or sitting home watching TV, I have no problem filling my free time with fun.

**What’s one interesting thing about you that ALOA members may not know?** I used to be a commercial actress. I was the “original cavegirl” in car insurance commercials with the Rodney D. Young “When the World Was Young” series on TV. I think they ran those commercials from 1988 to 2000 (you can watch one at <http://bit.ly/2qpsXec>). ☺

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### Lockmasters Security Institute

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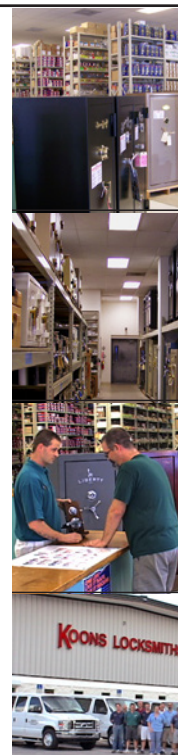
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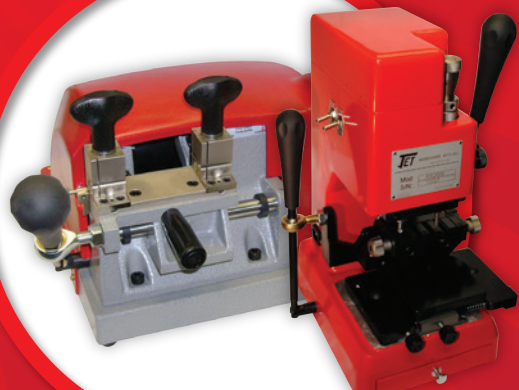
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