

The Appalachian Messenger

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Imposing Liberty

By T. L. Davis



Well, we are accustomed to the imposition of laws against liberty. That is our linear thought process. It fits well with the mood of the day. But the only way to enjoy liberty is to impose it. Walk away from that responsibility and it is lost. This is where we are today. Too many of those who value liberty see it as something they obtain for themselves and who cares about everyone else, but eventually, they are surrounded by those who were left to gain more liberty for themselves by restricting the liberty of others.

We see this every day. An IRS agent can basically do, say and attest to whatever they want and the people, the individuals, are left to pay whatever it is that the IRS agent came up with. There is no retribution when they are wrong, no punishment for putting people through living hell. Do you think he does not understand that his liberty is greatly advanced by the rules as they exist, by the regulations that have been drafted?

Have we learned nothing? Being left alone is never what it seems. Being able to enjoy liberty is only a temporary condition that has been well fought for and imposed on the rest of society, through denial of government programs. The first thing a government has to do in order to supply someone else with benefits is to take it from another. Eventually, those in government who supply the benefits through programs and those who receive those benefits outnumber and overpower those who, out of a Christian sense of charity, agreed to help those less fortunate. By then, it is all turned around on the one who just wanted to be left alone to do business and make a profit. Suddenly, they are the detestable hoards who will not give MORE. Maybe a visit by the IRS will improve their point of view. Maybe, a few new regulations will alert them to their precarious position in this new parasitic society.

The one thing one might always count on is that those in need, of some kind, will always outnumber those who have what they need. In the parasitic society, those who have diligently produced income, profit and capital are food.

There will come a time, perhaps soon, when the parasites of all sorts destroy this nation and leave it open to invaders, to internal enemies dedicated to the collectivist system, to gangs and other relatively organized mobs, who, like scavengers pick the bones clean. Whatever voices of liberty remain, if any, must battle these odds to relight that torch.

I suggest, when we rebuild this society after the parasites have decimated everything within their reach, killed each other and submitted to our foreign enemies that we take this lesson and impose liberty on every single one of them. It is the only way to defend our own.

Charity is rightfully the Christian way and should remain there. It should be important to us as believers, it should be our driving force, but it should never be put in the hands of bureaucrats.

The Choice, Part One: The Technology

By Robert Gore, *Financial Editor*



I usually keep my life and personal details out of my blog posts. However, the story of Dr. Arnold Kelly and electrostatic dispersal (ESD) technology is a fascinating one. It also reveals much of what is wrong with today's world and crystallizes the economic, political, and philosophical issues underlying humanity's most critical choices: achievement or destruction, life or death. This article is longer (three parts) than the usual SLL article and is somewhat of a departure, but I believe those who read it will find it enlightening and rewarding. I found writing it more interesting than another grind through the issues that currently serve as grist for the blogosphere.

I and members of my family are minority investors in Dr. Kelly's majority-owned company, fouRy LLC, or 4Ry. I have performed and will continue to perform, various services for 4Ry, for which I may be compensated. The opinions and analyses are mine alone. This blog post is neither a solicitation of investment nor an offer to sell securities. 4Ry is a Delaware Limited Liability Corporation and its trademark application is pending.

Most of the ingredients in a spray can of pesticide, sunscreen, or antiperspirant are water, various propellants, and chemicals that make the spray stick to the target. There is surprisingly little of the active ingredient that actually kills bugs, protects skin from the sun, or stops sweat. When the aerosols are sprayed, some hits the target, some drifts through the air, and the applicator or bystanders may inhale some of it.

If an electrical charge is put on each of the sprayed particles, their behavior is no longer subject to random air currents and aerosol drift. Instead, the spray is governed by the quantum mechanics of electrostatic dispersal (ESD). Droplet size and distribution are controlled by imparted electrical charges and surface electron physics, not conventional fluid dynamics. The like-charged particles repel and speed away from each other under tremendous force.

(Continued on page 3)

How To Use The U.S. Energy Mapping System

By Samuel Culper, *Intelligence Editor*



As concerned citizens, one of the areas of security we should be monitoring is the health of critical infrastructure. The fact of the matter is that segments of our infrastructure are getting pretty old — to the point that the Department of Homeland Security is warning about “severe” consequences in the coming decade. Weakening or failing infrastructure poses one of the surest risks we’ll encounter, as failed services will either create or compound problems we face during an emergency.

And this underscores the importance in emergency preparedness to check the pulse of local infrastructure. (See at readfomag.com SHTF Intelligence: Getting Started series Part 1 and Part 2 for a quick guide on setting up automated intelligence collection.)

To illustrate how bad US infrastructure is, just a few years ago the American Society of Engineers graded critical infrastructure and found that 11 of 16 segments were “Poor: At Risk” of failure. Those segments include:

- Dams
- Drinking water
- Waste water
- Hazardous waste
- Levees
- Aviation
- Inland waterways
- Roads
- Transit
- Schools
- Energy

In this article, we’ll be covering energy infrastructure. I really like using the U.S. Energy Mapping System (eia.gov/state/maps.cfm) to identify the energy infrastructure around my area. It’s just going to give you energy facilities, though. (I’ll be writing more articles in the future about additional resources.) Here’s a quick set of instructions for finding out information about your local energy infrastructure.

On the U.S. Energy Mapping System website, on the top right corner of the map is a dropdown box that says, “Find Address”. Type in your address, a neighbor’s address, a nearby landmark or your zip code.

That search is going to give you roughly 36-mile x 36-mile map (my searches did). A pretty big area, but you’ll be able to see your nearest infrastructure facilities on the map.

PRINT OUT THAT MAP and put it in your Area Study binder. This is the binder where we keep information about our area as a quick reference in case the Internet/power goes down.

(Continued on page 3)

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PRACTICAL PISTOL TRAINING
COURSE SCHEDULE SEPTEMBER AND OCTOBER 2016

Classes will be conducted at the **Practical Pistol Training Range, Murphy NC**. Starting time is **9:00 a.m.** The classes are goal based so the end times may vary.

Equipment Required For All Courses: Firearm, holster, two or more magazines, speed loaders recommended for revolvers, magazine carrier recommended for semi-autos. Ammo requirements will vary and participants will be advised of rounds required prior to classes. Please bring a chair, snacks and lunch, water, hat, ear and eye protection.

WHY EVERYONE SHOULD TAKE THESE COURSES: Statistics indicate that 2 percent of all homes are the subject of home invasion each year. To put this in perspective, this means that 1 of 5 homes are the target of home invasions over a 10 year period. In 40 percent of these home invasions, the homeowner is injured or killed. **DON'T BE A VICTIM.**

SEPTEMBER 17: DEFENSIVE PISTOL FOR COUPLES-WORKING AS A TEAM.

SELF DEFENSE FOR COUPLES: Couples MUST learn to work together for self defense, whether classroom instruction and live fire. The instruction will be scenario based. Scenarios will include conflicts inside the home or other structures, vehicles and open areas (such as a parking lot). Live fire will use both air soft and firearms. This is not a substitute for the NRA Personal Protection Inside the Home course but an overview of situations where couples could be faced with the need to defend themselves. Cost: \$90 per couple.

SEPTEMBER 24: NRA PERSONAL PROTECTION INSIDE THE HOME.

(Required by the NRA before taking Personal Protection Outside the Home).

PERSONAL PROTECTION INSIDE THE HOME: This is an NRA Course. The material will deal with preventing a home invasion and how to respond if someone breaks into your home. In addition to the NRA material, the course will address the fundamentals of points of defense and moving through your home with a firearm. There will be 4-5 hours of classroom instruction followed by live fire at the range.

The normal fee for this course ranges from \$175 to \$275 depending upon the location. However, we believe this to be such an important training topic that the course will be **offered for \$95 per person**. Please reserve your space now. NRA materials have to be ordered and normally require a minimum of three weeks for delivery.

NOTE: THE NRA REQUIRES STUDENTS TAKE THIS COURSE AS A PREREQUISITE TO THE PERSONAL PROTECTION OUTSIDE THE HOME COURSES.

OCTOBER 8: NRA PERSONAL PROTECTION OUTSIDE THE HOME-BASIC

OCTOBER 9: NRA PERSONAL PROTECTION OUTSIDE THE HOME-ADVANCED.

PERSONAL PROTECTION OUTSIDE THE HOME-BASIC AND ADVANCED. This is the NRA version of our defensive pistol courses (drawing from concealment and engaging threats). The Basic Class is several hours of classroom discussion and 4-5 hours of live fire exercises. The Advanced Portion is a full day on the range. The normal charge for the basic and advanced course is \$300 (in part due the cost of student material from the NRA). Because we strongly believe anyone who has a concealed carry permit should have courses such as these, we are offering this courses at a substantially discounted price. Basic \$95 per person, Advanced: \$49 per person. (NOTE: THE NRA REQUIRES STUDENTS COMPLETE PERSONAL PROTECTION INSIDE THE HOME BEFORE TAKING THIS COURSE).

Contact practicalpistoltraining@gmail.com for more information.

CALENDAR OF EVENTS

Sept 8—The Well Armed Woman, Murphy Chapter, Murphy, NC, 6 p.m. A women's group dedicated to educating, equipping and empowering women gun owners. Meeting at Christian Martial Arts Center, 56 Valley River Ave, downtown Murphy. Contact Tasa Johnson at 828-835-8678 or Deborra Forehand at 828-342-9510 for information.

Sept 12—The Well Armed Woman, Georgia Mountain Chapter, Blairsville, GA. 5:30 p.m. A women's group dedicated to educating, equipping and empowering women gun owners. Meeting at 226 Gainesville Hwy, Suite C, Blairsville. Contact Carrie Brekke at twawgeorgiamountainchapter@gmail.com for information.

Sept 16-18—Prepper Camp, Saluda NC. Prepper Camp is a national event held in the foothills of the Appalachian Mountains and located in a campground venue that allows you to experience preparedness information, survival skills, and camp-craft activities. Learn what you need to survive, meet speakers and vendors that have preparedness items that you need, all in an environment where you can swim, camp, fish, boat, hike, and cook-out. \$75.00/ages 16 and up includes all classes/admission for the entire 3 day weekend. Ticket sales end August 31. See www.preppercamp.com/ for more.

Sept 17—Self Defense For Couples, Murphy, NC. Couples MUST learn to work together for self defense, whether classroom instruction and live fire. The instruction will be scenario based. Scenarios will include conflicts inside the home or other structures, vehicles and open areas (such as a parking lot). Live fire will use both air soft and firearms. This is not a substitute for the NRA Personal Protection Inside the Home course but an overview of situations where couples could be faced with the need to defend themselves. \$90/ couple. Contact practicalpistoltraining@gmail.com for more information.

Oct 6—Women On Target Clinic, Murphy, NC. 10 am. (Rain date Wed., Oct 12). For women only, this is a NRA safe gun class focusing on helping women learn how to shoot firearms in a safe and supportive environment. A firearm will be provided if needed and ammo will be available at market price. Pre-registration required. Cost \$40, lunch included. Meeting at the Practical Pistol Training Range. Contact practicalpistoltraining@gmail.com or call 706-896-6075.

Oct 15—Appalachian Homesteaders' Network Prepper Fair, Bryson City, NC. 11:00 am - 6 pm. Come meet and greet like-minded people. There will be vendors and free BBQ (while it lasts). Event will be held rain or shine; if rain it will be held at the Alarka fire house next door. From US 74 at Bryson City take Exit 64, turn East onto Alarka Road, go approx. 3 miles. Location will be on the left at 3301 Alarka Road.

Hope n' Change HopeNChangeCartoons.com / ©2016 by Stilton Jarlsberg

Panel 1: Martin Luther King Jr. says "I HAVE BEEN TO THE MOUNTAIN TOP..."

Panel 2: Hillary Clinton says "TRUMP IS A RACIST!"

Panel 3: Donald Trump says "HILLARY IS A BIGOT!"

Panel 4: Trayvon Martin says "SCREW THE NATIONAL ANTHEM - THE WHOLE COUNTRY IS RACIST!"

Panel 5: Barack Obama says "YES, YES, YES! I'VE GOT A LEGACY!"

Panel 6: Martin Luther King Jr. says "...AND I HAVE SEEN A BUNCH OF IDIOTS WHO SHOULD BE THROWN OFF OF IT!"

Gardening Tip: Dragonfly Lures

Dragonflies can consume **300 insects per day!** Lure them to your yard with an old barrel, trough or small pool filled with water. Stick tall bamboo stakes into submerged, soil-filled pots, making sure the stakes protrude above the water. Dragonflies will enjoy resting on your above water perches, sometimes depositing eggs onto the water.

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Directions: From US 74 at Bryson City take Exit 64. Turn East onto Alarka Road (away from Bryson City). Stay on Alarka Road for approximately 3 miles. Location will be on the left, 3301 Alarka Rd.

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How To Use The U.S. Energy

Mapping System (Continued from page 1)

Then click on each individual marker on the map to get more information. Record that information in your Area Study binder, and use a search engine to find out more information, if necessary.

The U.S. Energy Mapping System may not save the day, but it will increase your situational awareness about what's around you and your community. And you never know when or if this information will come in handy in the future.

If you know of additional resources, please share them and I'll post them to our Open Source Intelligence resources page.

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The Choice, Part One: The Technology (Continued from page 1)

This force, the second strongest in nature, is known as Coulomb repulsion, after the scientist who first described it mathematically (Coulomb's Law) in 1785. The charged particles go to ground, the target surface.

Dr. Arnold Kelly has invented and patented a sprayer that charge-injects individual droplets in a spray, using a low-energy delivery system. Because of Coulomb repulsion and ESD, a spray passing through Dr. Kelly's sprayer, called the Spray Triode Atomizer (STA), requires minimal pressurization and the chemical propellants and water are unnecessary. All the STA requires is the active ingredient, which seeks and clings to the target surface and spreads evenly over it, even if the surface is irregular. Little is lost to aerosol drift. In one mind-blowing demonstration, the STA sprays both the front and back of a person's hand with baby oil without shifting the position of either the STA or the hand. My hand has been so coated in Dr. Kelly's lab.

Dr. Kelly is literally a rocket scientist. He received his PhD in mechanical engineering with a minor in jet propulsion from the California Institute of Technology, and has worked for North American-Rockwell's Rocketdyne Division, the Jet Propulsion Laboratory, and Exxon (now ExxonMobil). At Rocketdyne, he was a member of the team that designed the booster rocket for the Saturn V rocket. He got the idea for the STA from the design of a rocket engine. Dr. Kelly has a long association with the Princeton Aerospace and Mechanical Sciences Department, where he was a Senior Research Scholar with a rank of full professor and manager of the Electric Propulsion Laboratory before retiring in 1994. Perhaps the foremost authority in the world on ESD, he has over 30 patents and has authored or co-authored over 100 published articles. Dr. Kelly is a member of a variety of professional organizations, and has served on a number of technical committees. He has researched ESD and developed, tested, and refined the STA for approximately 40 years.

The STA presents obvious advantages over conventional spraying: elimination of unnecessary ingredients, many of which are toxic pollutants; much less drift, waste, and overspray; a significant reduction in the risk of applicator and bystander inhalation, and more thorough and even coating, especially for irregular surfaces. It promises economic and ecological benefits in personal care, industrial, and agricultural spraying applications. However, those benefits represent only part of its potential.

Charge-injecting particles makes combustible fluids more combustible. The STA can control the range and mixing distribution of individual particle sizes. Charged, smaller particles are more combustible. Using an STA instead of a conventional fuel injector in a diesel engine could increase the proportion of diesel fuel burned, improving the engine's efficiency and reducing its particulate waste. Similarly, an STA would eliminate the necessity of high-pressure containers of butane or propane—fossil fuels—for camp stoves or lights. They could use biodiesel or vegetable oils that are not currently usable.

ESD opens up myriad technological possibilities beyond the STA. There are applications in separation processes, e.g., separating waste from oil to clean the oil and extend its useful life. Currently under investigation are applications in drug administration and nanofiber production. It's a reasonable bet that more applications will be discovered for both the STA and ESD.

The name fouRy comes from the physics of Dr. Kelly's sprayer. A Rydberg unit is the energy necessary to ionize a hydrogen atom: 13.6 electron volts. The charge the sprayer imparts on an individual particle is 54.4 electron volts (a tremendous amount of energy to put on a particle—your breakfast only required two or three electron volts to digest) or exactly four Rydberg units. The company's name is a contraction of four and Rydberg: fouRy, or 4Ry. It is a Delaware limited liability company.

4Ry was formed earlier this year and is the vehicle for commercializing Dr. Kelly's technologies. David Bird, an MBA, engineer, and my friend since childhood, is the CEO, with responsibility for commercialization. Dr. Kelly improves, extends, and refines ESD technologies and adapts them for various applications. My responsibilities are somewhat ad hoc. Among other accomplishments I've filed the trademark application and designed the admittedly rudimentary website (4rysprays.com).

Dr. Kelly collaborated with Bird after repeated failures to interest companies in his technologies. One would think that in a world preoccupied with academic credentials, Dr. Kelly's would be sufficient to open the right corporate doors, but that was not the case. Many times he met with people who lacked the technical expertise necessary to evaluate either the technology or its potential. Then there's the problem of taking a better mouse trap to existing mouse trap makers.

Undoubtedly some of those who rejected Dr. Kelly recognized the potential, but realized implementation would require extensive changes in corporate processes and procedures. However, at the initial stage, Dr. Kelly wasn't asking anyone to institute such changes, only to take a close look at a promising technology. A lesson from Dr. Kelly's early failures: corporations are filled with seat warmers who are practiced in the arts of corporate politics, but who are unwilling to take risks. Many of these same people, however, can give a rousing speech about thinking outside the box.

Dr. Kelly acknowledges he was not entirely blameless. David Bird and I grew up in Los Alamos, which has its share of geniuses. Let me tell you something about geniuses, they are different from you and me. Egalitarian emissions, fatuous fables, and the self-proclaimed, overhyped variety aside, real geniuses don't have much company on their end of the bell curve. Cream-of-the-crop engineers and physicists are most comfortable talking with their own. Some conversations with Dr. Kelly have left me dazed and confused. Presumably he had the same effect on the MBAs, lawyers, and accountants who populate the executive ranks of many companies. Fortunately, he has always been patient with my questions, including the ones he undoubtedly found tedious. Many of the corporate types didn't ask questions. Never underestimate the power of a question.

Next, Part Two: The Biggest Challenge