



# SCARA NEWSLETTER

## SEPTEMBER 2014



Celebrating over 50 Years Affiliation with the ARRL

SCARA P.O. Box 121 Linwood, NJ 08221

Repeaters 146.745 MHz PL 142.6 and 448.775MHz

### Meeting Notice

Our next regular club meeting will be held on Thursday, September 11th, 7:30 PM. at the Canale Training Center. The guest speaker is Shavon from the Boy Scouts of South Jersey.

**Plenty of room, conversation and refreshments for everyone!**

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### Meeting Report August 14th, 2014

The meeting started at 7:30pm and all committee reports were given. At this time a report was given that the jackets and badges will be at the next meeting.



### Bugs of the Internet VIRUS

A computer virus is a program or piece of code that is loaded onto your computer without your knowledge and runs against your wishes. Viruses can also replicate themselves. All computer viruses are man-made. A simple virus that can make a copy of itself over and over again is relatively easy to produce. Even such a simple virus is dangerous because it will quickly use all available memory and bring the system to a halt. An even more dangerous type of virus is one capable of transmitting itself across networks and bypassing security systems. Since 1987, when a virus infected ARPANET, a large network used by the Defense

Department and many universities, many antivirus programs have become available. These programs periodically check your computer system for the best-known types of viruses. Some people distinguish between general viruses and worms. A worm is a special type of virus that can replicate itself and use memory, but cannot attach itself to other programs.

### Malware

Malware, short for malicious software, is any software used to disrupt computer operation, gather sensitive information, or gain access to private computer systems. It can appear in the form of executable code, scripts, active content, and other software. 'Malware' is a general term used to refer to a variety of forms of hostile or intrusive software. The term badware is sometimes used, and applied to both true (malicious) malware and unintentionally harmful software. Malware includes computer viruses, worms, trojan horses, ransomware, spyware, adware, scareware, and other malicious programs. As of 2011 the majority of active malware threats were worms or trojans rather than viruses. In law, malware is sometimes known as a computer contaminant, as in the legal codes of several U.S. states.

### SCARA 2014 Monthly Calendar

**AUXCOM-SKYWARN Nets:**  
Mondays 7 PM on  
146.745 MHz, K2BR /R

**SCARA VHF KISS Net:**  
Every Thursday 7:00 PM on K2BR  
Repeater

**SCARA HF Net:** Sun. Sept. 21,  
10:00 AM 3.928 MHz +/- QRM

**Board Meeting:** To be announced

**VE Test Session:** 1st Thursday each  
month 6:30 PM, testing begins at  
7:00 PM at Canale Center. Pre-  
registration is required!

**RACES Net:** Sept. 29, 7:00 PM  
Canale Training Center

Malware is often disguised as, or embedded in, non-malicious files. Spyware or other malware is sometimes found embedded in programs supplied officially by companies, e.g., downloadable from websites, that appear useful or attractive, but may have, for example, additional hidden tracking functionality that gathers marketing statistics. An example of such software, which was described as illegitimate, is the Sony rootkit, a Trojan embedded into CDs sold by Sony, which silently installed and concealed itself on purchasers' computers with the intention of preventing illicit copying; it also reported on users' listening habits, and created vulnerabilities that were exploited by unrelated malware.

The term malware only applies to software that intentionally causes harm. Software that causes harm due to bugs or poor design are not classified as malware; for example some legitimate software written before the year 2000 had errors that caused serious malfunctions when the year changed from 1999 to 2000 - these programs are not considered malware. Software such as anti-virus, anti-malware, and firewalls are used by home users and organizations to try to safeguard against malware attacks.

### **WORM**

A worm, on the other hand, doesn't require a host program. It's an application that can replicate itself and send itself through computer networks.

### **TROJAN**

Trojan horses are programs that claim to do one thing but really do another. Some might damage a victim's hard drive. Others can

create a backdoor, allowing a remote user to access the victim's computer system.

### **2014 Best Best Antivirus Software Review TOP 15**

1. Bitdefender Antivirus Plus,
2. Kaspersky Anti-Virus
3. Norton AntiVirus
4. F-Secure Anti-Virus
5. AVG Anti-Virus
6. BullGuard Antivirus
7. G Data AntiVirus
8. Panda Antivirus Pro
9. Avast! Pro Antivirus
10. McAfee AntiVirus Plus
11. ESET NOD32 Antivirus
12. Trend Micro Titanium
13. Webroot Secure Anywhere
14. Avira Antivirus Premium
15. Norman Antivirus.

A reminder to all, you can get the latest local weather and severe weather reports from:

<http://www.nhc.noaa.gov/>

### **Special Events**

The Lighthouse events this past month went well. We made 182 contacts during the two weekends of operations, even with the bands not being very favorable.

### **MS 150**

The MS 150 is going to be here before you know it. The event is being held Saturday September 27 & Sunday the 28<sup>th</sup>. If you are available that weekend to be an extra set of eyes for the rider's safety please contact Ed W2KP. W2KP@verizon.net.

### **Dues**

If you're Dues Are OVER Due you might miss out on the finer things about your club, if you have not paid your dues you will be removed from the newsletter and the entire goings on!!

### **Monthly VE Test Sessions**

On the first Thursday of each month SCARA holds a VE test session. For information call Larry, KB2MN, 609-287-5340. The test location is the Canale Training Center, 5033 English Creek Ave, Egg Harbor Twp., NJ 08234. The doors open at 6:30 PM and testing begins at 7:00 PM. Pre-registration is required. Be sure to bring your photo I.D. and photocopy of current license if you are upgrading to a higher license class. The current testing fee is \$15.



### **Swap Shop**

**Wanted:** 2 meter mobile or base transceiver. Harry Cohen KD2AYT

**Reminder:** SCARA has an online amateur radio swap shop. Go to our website to see current listings. E-mail your "For Sale" and "Wanted" items to Larry KB2MN. [kb2mn@verizon.net](mailto:kb2mn@verizon.net)

### **September Contests**

All ARRL contests for 2014 are listed inside the link inside the below. A generic ARRL contest calendar is also provided that gives the weekends for all their events, to assist with long-term planning of your contest operations. The Contest Corral files include non-ARRL events.

<http://www.arrl.org/files/file/Contest%20Corral/Contest%20Corral%201409.pdf>

**What's a Watt?**

A "Watt" is a unit most commonly used as an expression of electrical power (although it is equally valid as an expression of mechanical power). It is named after James Watt (1736-1819), a Scottish inventor who perfected the steam engine. Common expressions to remember:

Power (in Watts) = voltage (Volts) x current (Amps)

(example: a 1200 watt hair dryer will draw 10 Amps at 120 Volts) milliwatt = 1/1000 of a Watt kilowatt (or KW) = 1000 Watts megawatt (or MW) = 1,000,000 Watts

A Watt is a unit describing the instantaneous power that an appliance is drawing at any one moment. The total amount of energy used is found by multiplying the power by the length of time the appliance is on. This is most commonly expressed in "Kilowatt Hours" (or kw-hrs) and is what the power company generally uses to calculate your bill.

Having kilowatts of power available at our fingertips is taken for granted in the modern age. We often don't recognize what it would take to provide this power the old fashion way with animal power. When electricity was being introduced to American homes there were ads and articles calculating the number of humans needed for a Roman nobleman needed to get the same power the modern home can have "for just pennies a day" (at least in 1930). A hard working human generates about 100 watts for a few hours at a time. Given an electrical service of 10 KW it would require 100 humans to generate an equivalent amount of power! A slightly flawed comparison perhaps, but it is still worth keeping in mind. In order to give you a feel for these quantities, here are typical values for everyday household items...

Power Hrs/Day	Energy Notes
Solar Path Light	20 Milliwatts 6 .12 Watt Hrs
Xmas light Bulb	5 watts 12 60 Watt Hrs
Cable TV box (off)	10 watts 24 240 Watt Hrs
Cable TV box (on)	100 watts 4 400 Watt Hrs
100 W Bulb	100 watts 4 400 Watt Hrs
PC (active)	200 watts 4 800 Watt Hrs
Toaster	1000 watts .25 250 Watt Hrs
Hair dryer	1500 watts .25 375 Watt Hrs
Refrigerator	350 watts 8 2.8 KW Hrs at 1/3 duty cycle
Oil Furnace	1000 watts 8 8 KW Hrs varies by season
Electric stove+oven	7,000 watts .5 3.5 KW Hrs all elements on
Electric clothes dryer	7,500 watts 1 7.5 KW Hrs
Electric space heating	20,000 watts 8 160 KW Hrs varies by season

**Club Information 2014**

**Officers**

President:	Bill McCord	KC2ONQ	(609) 435-0598
Vice Pres:	Bill Schwoer	KC2AAY	(609) 892-7888
Treasurer:	Bob Webb	WA2YSA	(609) 646-6843
Secretary:	Mandy McCord	KC2QOG	(609) 435-0598

**Board of Directors**

Stan Friedman	WA3JMV	Arnie Oberson	W2OB
William Paulus	W2MWI	Bob Nicotera	KB2ERL
Tim Adams	KD2EGR		

**Committee Chairs**

<b>VE Coordinator</b>	Larry Schall KB2MN	<b>ARRL QSL Card Mgr</b>	Arnie Oberson W2OB
<b>Sunshine</b>	Bob Webb WA2YSA	<b>Dinner Chair:</b>	Harry Cohen, KD2AYT
<b>Refreshments</b>	KC2ONQ	<b>Field Day</b>	Bill Schwoer
<b>ARLHS Coordinator</b>	Ed Clark W2KP	<b>Repeater</b>	W2KP, KC2AAY
<b>Newsletter Editors</b>	Bill Schwoer KC2AAY, Bill Paulus KD2EOY	<b>Trustee:</b>	Bill Schwoer
<b>Newsletter Copy Ed.</b>	Nancy Jarrin N2ANG	<b>Web site Ed.</b>	Larry Schall KB2MN
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