



USECA EXPRESS



Michigan's Largest and Most Active Amateur Radio Club

UTICA SHELBY EMERGENCY COMMUNICATION ASSOCIATION, INC. Volume 23, Number 1, January 2007

Election:

Club Officers

The following are the results of the December election — your new officers for 2007:

President

Chuck, N8ZA

Vice President

Brad, N8VI

Recording Secretary

Ann, KT8F

Treasurer

Dennis, W8DFG

Membership Secretary

Ken, KW8Z

Board Members

Walt, WB8E

Joe, N8OZ

Tom, N8ZI

Eat B 4 U Meet

For the month of January, the menu again will be USECA's award-winning Sloppy Joes for a mere buck with accessories starting at 6:00 PM.

Please note: As we enter into the winter months, please park in the lower half of the parking lot so that the Euchre players from the Elks do not have to park down there and complain. Your cooperation will be greatly appreciated.

Dennis, [W8Dah](#) [Food Guy](#)

Field Day 2007

It is time again to start thinking about our biggest annual club function, Field Day. Not the biggest you say, the Swap is bigger, well that can change! It just needs YOUR help to do so. My calendar says it will be June 23 and 24 this year. Clear your calendar now. When I got married to my bride I asked her to never step on two weekends, Field Day and Dayton. She never has. I will be a bit busy the following weekend with my daughter Mary, N8CVC getting married, but FD is clear! Her fiancé John, W8JPS is also a ham so we KNOW they will be Radio Active!

Your new FD "Dictators" are: Bill, N8SA, Steve, N8XO, and Ray, KD8CXY.

All three of your FD "Directors" (PC Title) are dedicated to making this the biggest and best experience you ever had in ham radio with your pants on! WELL, that sure wasn't very PC! Oh, well, so I am not that PC, but we sure are dedicated to make a statement like that!

It is time for everyone to contemplate what station you want to work with or run. We hope to have stations on all bands, from 160 meters to 1.2 GHZ! Modes will be phone, CW, and Digital. That last one is the fastest growing segment of FD especially with the advent of PSK31 and the other new "Soundcard" digital modes. We will have an article in all the newsletters until we break for summer and DO FIELD DAY! I hope to get you thinking "Field Day" now.

My 40 meter digital station is already working on our antenna system for this year, building a remote antenna switcher for our "five sloper switched array". This antenna offers gain, directionality, and instant switching of those directions—that is just one of the ideas I have for successful FD antennas. I have lots of other great antenna ideas. Just ask me if you don't know how to "upgrade" your antenna system for this year. We will be at Jim, N8MCD's farm at 30 Mile Rd. and Powell Rd. again. Thank You Jim and Kathy—you folks are wonderful!

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Are
Yours
Paid?

Dues Due!



Next Meeting — January 9

CLUB DIRECTORY

BOARD OF DIRECTORS

President	Chuck Perushek/N8ZA (586) 557-4983
Vice President	Brad Tarratt/N8VI (248) 506-7609
Recording Secretary	Ann Manor/KT8F (586) 751-3893
Treasurer	Dennis Gaboury/W8DFG (586) 465-7126
Membership Secretary	Ken Cassale/KW8Z (586) 552-8311
Board Member	Walt Gracey/WB8E (586) 777-2954
Board Member	Joe Kennedy/N8OZ (586) 977-7222
Board Member	Tom Tincknell/N8ZI (586) 651-7239
Past President	Jim Wickstrom/W1IK (586) 771-4135

COMMITTEES

ARRL Liaison	Bobby/N8CY (248) 879-7214
Awards Manager	Chris/KV8Z
Door Prizes	-OPEN-
Editor	Joe/K8OEF (586) 781-0050
Field Day Chair	Bill/N8SA, Steve/N8XO & Ray/KD8CX
Health & Welfare	Walt/WB8E (586) 777-2954
Historian	Jerry/K8CFY (586) 791-4484
Liaison	Dave/KC8TTQ
Mailers/Sorters	Ann/KT8F; Phil/W8IC; & Crew
Net Manager	Brian/KC8DIR (586) 749-4561
Photographer	Wes/KD8DHS
Program Director	Brad/N8VI (248) 506-7609
Public Relations Officer	Ken/N8KC (248) 652-1187
Refreshments	Walt/WB8E; & Richard/KC8HMJ
Repeater Trustee	Dennis/W8DFG (586) 465-7126
Swap Director	Tom/N8ZI (586) 651-7239
Technical Director	Floyd/W8RO (248) 391-6660
Technicians	W8IC; K8FT; WA8GQL; W1IK; AD8S; N8SA
VE Testing	Joe/N8OZ (586) 977-7222
Webmaster	Brad/N8VI (248) 506-7609

CONTROL OPERATORS (*Phone Number Above)

Dennis/W8DFG*	Joe/K8OEF*	Fred/W1SKU
Phil/W8IC	Joe/N8OZ*	Chuck/N8ZA*
Jim/W1IK*	Floyd/W8RO*	

PROGRAMMERS

Dennis/W8DFG	Jim/W1IK	Brad/N8VI
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The Editor is:

Still Going

Joe, K8OEF

2007—Can you believe it? (Double oh seven.)

The entire editorial staff had its annual meeting and the staff decided to award its annual *Golden Crystal Award* to Scott, W1NB. Scott has provided our club with endless time and talent in many phases; not only serving on the board and all the time spent enhancing all the facets of our repeater. His technical skills will surely be missed. Congrats to Scott!

Our club officers (including one new member) are ready to continue their skills to keep our club running smoothly and attempt to keep everyone happy—(tough job!).

73 for now.



This is why Santa missed my house!

Ham University

Feb. 24-25 2007 at Macomb Community College (Garfield at Hall Rd. [M-59])

Saturday: 0900-1800 and Sunday: 0900-approx. 1300

Cost is \$10.00 (register before Jan. 31, 2007)

Prerequisite: Completely read text "Ham Radio License Manual" BEFORE class.

DO YOU HAVE a friend, acquaintance or relative who wishes to get his or her ham ticket but never seems to have the time to do it. Well, I gotta deal for you! I have been doing this "Ham University" thing for four years now. It is a very intense weekend of learning followed by testing and the student comes out with their Tech License. This class is open to all. There is no age limit to getting an amateur radio license.

It will be a little different this year than the past. The class will cost \$10.00 but that will include a registered copy of "Ham University" software by the ARRL. (They liked my class so well they named their software after

it—HA!) Anyway, this is complete testing and quizzing software including even Morse Code for ALL license classes. It also comes with free upgrades for three years. This is normally \$39.95 by itself. BUT, the catch is you have to pre-register with me by Jan. 31, 2007 to receive the software. I have to order ALL the copies for the class at one time. If you pre-register late I cannot guarantee you a copy of the software. The text we will be using used to be called "Now You're Talking" but has been completely re-written and re-named the "Ham Radio License Manual." (How original!)

—Continued on Page 6

Mobile Impulse Noise

A RECENT comment added to my Alternator Whine article, prompted this one on mobile impulse noise.

That comment stated that some forms of ignition noise can sound like alternator whine. When combined with some forms of DSP (Digital Signal Processing), there is a ring of truth in the statement (pun intended). Nonetheless, a clarification is in order.

As I stated in the alternator article, the frequency of alternator whine is roughly equivalent to the engine RPM. At a steady-state 60 MPH, the average V6 vehicle engine is turning about 1,800 RPM. Four cylinders will be a little higher, and eight cylinders a little lower. So the whine will be in the range of 1,500 Hz, to about 3,000 Hz. Twelve diode alternators will be double this amount. Generally speaking, the output is a series of sinusoidal half waves, and as such the rise time is rather slow. As a result, there is very little harmonic energy generated unless there is a bad diode. Even then there is no appreciable amount of RFI generated.

At the same RPM, a V6 engine will fire three times with each revolution. At 60 MPH, that's a frequency of 5,400 Hz. Because the ignition arc occurs when the field of the ignition coil relaxes, the rise time is very fast. As a result, a whole lot of RFI is generated well into the VHF spectrum. Because of the different gear ratios used, and at any given MPH, the RFI frequency tends to be the same regardless of the number of cylinders. Incidentally, the level of ignition RFI changes with engine load and/or RPM.

Modern engines universally incorporate electromechanical fuel injection. The electromagnetic coil is energized for a very precise period of time by the engine control computer. When the field collapses, a fast rise time pulse is generated. Here too the resulting RFI extends into the VHF spectrum. As a rule,

the injector pulse is less bothersome, due in part to a lower current requirement (verses the ignition). However, the new direct-gasoline injection systems use higher current levels as the nominal fuel rail pressure is as high as 150 BAR, therefore they tend to be worse RFI offenders.

Modern diesels aren't much better with respect to impulse noise as they too use electromagnetic injectors or an electromagnetic shuttle system. In fact, the current used to drive the coils tends to be higher than gas engines so more RFI is generated.

DSP systems come in many different forms. They may be audio based, IF based, or external. In a few high-priced radios, the DSP is applied directly to, and at, the incoming signal's frequency. The effect, or lack of it, on the incoming signal is different with each design. However, a few general assumptions can be made with respect to amateur transceivers.

1). We limit the audio bandwidth to about 3 kHz, albeit the front ends may be barn door wide.

2). Fast rise time signals (ignition RFI) tend to be masked better than slow rise time signals (alternator whine), which is, as a rule, part of their algorithm.

3). Bandpass width and depth adjustments change the perceived level and shape of any given type of interference.

4). Signal integration and phase distortion are common problems, especially with inexpensive DSP designs.

As a result of these shortcomings, the perceived interference (the actual audio) we hear out of our speakers can be much different than the actual signal would otherwise sound. This makes definitive identification of the various AFI, RFI, and EMI signals difficult.

There are very few built in noise blanker circuits worth any mentioning. Almost universally, the distortion, IMD products, and

crosstalk they generate makes their use in high-level RFI situations antithetical (mutually incompatible). Add in a dose of poor DSP design, and it becomes very difficult to distinguish one RFI source from another.

It is always best to cure an RFI problem at its source. If you don't know the source, you're wasting time and effort. Identifying which is which is difficult at best. There are a few examples of the worst offenders located within my web site article [Noise ID](http://www.k0bg.com) (<http://www.k0bg.com>). These sound files may help you identify which is which. However, they are by no means the only examples.

Nonetheless, here are a few suggestions to make sure which RFI generator you're dealing with.

1). Keep the DSP off, or at least at it's widest bandpass setting and minimum depth (DSP level in some cases).

2). Keep the noise blanker turned off.

3). Use the highest band (frequency) where the RFI can be easily heard.

4). If you remove the antenna and the noise goes away, it's a safe bet it's radiated RFI rather than induced noise through the wiring.

5). If removing the coax from the radio reduces or increases what appears to be alternator whine, chances are it's caused by poor DC wiring and/or grounding.

6). If you hear a rhythmic tick, tick, tick, that is too slow to be ignition, it could very well be a fuel pump.

7). A carrier which continues for a few seconds after turning off the ignition may also be a fuel pump. On Honda vehicles, the carrier shows up every 5 kHz, and can even be heard on 10 meters. It is caused by a mono-stable vibrator which drives the brush-less fuel pump motor. The motor stays on until the oil pressure drops as an

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USECA Meeting Minutes

Board Meeting—December 5, 2006

In attendance:

N8ZA, Chuck	President
N8VI, Brad	Vice-President
KT8F, Ann	Recording Secretary
KW8Z, Ken	Membership Secretary
W8DFG, Dennis	Treasurer
WB8E, Walt	Board Member
W8IC, Phil	Board Member
N8OZ, Joe	Board Member
W1IK, Jim	Past President
*Absent	



Meeting called to order by the President at 7:31 PM.

Motion to accept the minutes of the last BOD meeting made by Jim, and 2nd by Joe, motion carried.

Membership: Ken, KW8Z: 194 members with tonight's approvals.

Web Master: Brad, N8VI – streaming was down about 24 hours, now fixed.

Technical Report: Jim, W1IC – repeater working. Phil and Jim have been working on the voter problem. Some further work needs to be done. Jim requests that users try to avoid discussion of the voter problem on the air when noisy signals are heard. Discussed current problems with the controller. The filters are in and are in place at the south and east sites. The west site has been sold and we need to remove our equipment.

Health and Welfare: Walt reported on ailing members and sent cards around.

Old Business:

T-shirts: the January General meeting is the deadline for design submissions.

Ann reported on the Christmas party.

New Business:

Phil notified the board that Bill, N8SA, Steve, N8XO and Ray, KD8CXY have agreed to be co-chairs for next year's Field Day. Phil made a motion that the BOD approve the group for the position, 2nd by Joe,

vote taken, motion carried.

Treasurer: Dennis provided the current financial report. Dennis made a motion to make our annual donation of \$100 to the Elks, 2nd by Phil, discussion, vote taken, motion carried. Dennis made a motion that USECA donate a turkey to the Elk's club for a Christmas basket to go to a needy family, 2nd by Joe, discussion followed, vote taken, motion carried.

Trustee: Dennis is investigating D-Star digital radios and provided information regarding the technology. Will try to set up a program at a general meeting to inform the members about D-Star.

We will provide chilidogs for a nominal fee for the eat-before-you-meet at the January general meeting.

Phil suggested that the BOD think about obtaining an isolator to protect our repeater. Will look into prices.

Motion to adjourn the meeting made by Walt and 2nd by Ken, motion carried, meeting adjourned at 8:41 PM.

Respectfully submitted,
Ann Manor, KT8F, Recording Secretary



General Meeting—December 12, 2006

In attendance:

N8ZA, Chuck	President
N8VI, Brad	Vice-President
KT8F, Ann	Recording Secretary
KW8Z, Ken	Membership Secretary
W8DFG, Dennis	Treasurer
WB8E, Walt	Board Member
W8IC, Phil	Board Member
N8OZ, Joe	Board Member
W1IK, Jim	Past President
*Absent	

Meeting called to order by the President at 7:30 PM.

Introductions were made, new members, visitors and upgrades recognized.

Correspondence: letter and flyer from the Hazel Park Radio Club advertising their swap on January 21, 2007 at the Hazel Park High School. Deadline for table reservations if you wish the same spot as last year is December 31. Contact K8KHZ at 248-632-1164; or email: k8khz@arrl.net or Jeff, N8WR 248-642-3608, email n8wr@arrl.net.

Motion made to accept the minutes as printed in the Express made by Keith, N8EB and 2nd by Neil, WD8CRT/V73NS, motion carried.

Treasurer's report given by Dennis, W8DFG. Motion to approve made by Alec, KC8ZIR and 2nd by Jim, WY8I, motion carried.

Membership: Ken, KW8Z: 194 members. Now taking renewals. General meeting in February is the deadline to get your name and info printed in the roster.

Web: Brad, N8VI – has been working on the server, fixed some problems, now working well. Brad upgraded the server on 11/27.

Express: Joe, K8OEF reported.

Technical report: Jim, W1IK reported on the ongoing work on the system. Several problems have occurred which are being worked on. As work progresses, from time to time the backup repeater will be in use. Additional improvements are in the works for the remote sites, also some equipment from the main site may be changed out.

ARRL: Bobby, N8CY reported on recent and upcoming events.

—Continued on Page 7

Mobile Impulse Noise—From Page 3
aid in purging the system of excess vapor. This fact makes identification somewhat easier.

8). Some fuel pumps use brushed motors even though they are mounted inside the fuel tank. These cause an intermittent hash. There is usually a few seconds of hash when you first turn on the ignition, and then intermittently after the engine is running. Revving the engine changes the staccato rhythm, but not the level of RFI.

9). If you listen carefully at low RPMs, you'll hear the injection pulse, and then the ignition pulse immediately afterward. If you have a scope, and connect it to the audio output, you can actually see the two pulses. The ignition pulse is always much higher than the injector pulse. The point being, most of the time you can't hear the injectors as their pulse is masked by the ignition pulse.

10). Some lesser known RFI generators are throttle position motors (primarily drive-by-wire systems), IAC (Idle Air Controls), Navi ROM motors, cross-flow ventilation motors (which can run even though the HVAC is off), and servo motors in automatic transmissions.

11). The most common RFI sources (more or less in order), ignition, injectors, cooling fans, HVAC fans, and windshield wiper motors.

If there is anything universal about noise suppression, it is the fact no solution is universal. Here's

a few things to keep in mind while you're locating a source:

There are as many "fixes" as there are RFI sources. These include (more or less in order) very robust bonding, proper antenna mounting, proper DC and coax wiring, split beads, shielding, shunt capacitors, and a host of others;

What suppresses some forms of RFI, won't necessarily work with other similar sources;

What suppresses a specific RFI problem on your last vehicle, is no indication it will work on your new one;

Two separate sources can produce the exact same signature. Curing one won't necessarily cure or mask the other. In other words, if your attempt to cure a source (like adding a split bead or two), didn't cure the RFI, don't remove the first cure until you find the second identical signed one. A good example of this is injector and ignition RFI;

Two, otherwise identical, vehicles can have vastly different levels of RFI, EMI, and AFI. Buying a vehicle because you have heard it is RFI clean is a prescription for owning the worst RFI generator on four wheels. If you're really into mobile operation, take along a decent HF receiver as a precaution;

If a couple of ground straps cured your RFI problem, the only conclusion that can be drawn is, you were very lucky.

What ever you do, don't give up! John Pavelich, VE3XKD, has spend about 200 hours, and that much money curing the RFI emitted by his Prius, and he isn't done yet!

On the forefront of automotive technology is a new vehicle breaking system being developed by Siemens, a German electronics company. A short write up of the system appears in the November 13th issue of AutoWeek, on page 10. While a very significant development in many ways, the system uses high frequency signalling to control the electronic actuation motors. It is yet another example of why it pays to be cognizant of cutting edge, digitally controlled devices, which have a potential of causing serious RFI.

FCC Part 15, Subpart B, 15.103 (a) exempts automobiles as unintentional radiators. However, the preamble to that exemption states that manufacturers should endeavor to keep levels below those set by Part 15. Exemption or not, excessive levels of RFI from any vehicle should be brought to the attention of the selling dealership, factory representative, and even the corporate offices of the manufacturer. It is a case of the proverbial squeaking wheel. After all, we don't want automotive digital electronics to become another BPL-like wasteland.

Alan, KØBG
www.kObg.com

—Submitted by Doug, K8DK

The Value of Time

To realize
The value of a sister
Ask someone
Who doesn't have one.

To realize
The value of ten years:
Ask a newly
Divorced couple.

To realize
The value of four years:

Ask a graduate.

To realize
The value of one year:
Ask a student who
Has failed a final exam.

To realize
The value of nine months:
Ask a mother who gave birth to a
stillborn.

To realize
The value of one month:
Ask a mother
Who has given birth to a premature
baby.

To realize
The value of one week:
Ask an editor of a weekly
newspaper.

—Continued on Page 7

Field Day—From Page 1

With us running 5 watt battery again, (Why mess with what works folks!) antennas always make the difference between being a winner or an "also ran" station. Station chairs, you should be recruiting (read "BRIBING") your operators for your stations now. I found offering "certain enticements" helped. Those who were there this past year know what I mean. Those who were not will have to come out to see for themselves.

Walt, WB8E has already started into getting FD shirts for us. Those will be available soon. I will offer iron on enhancements to anyone who wants to add your callsign, name, station info, brags, etc. I believe cost will be \$1.00 per 8.5 x 11 sheet. You iron it on yourself where YOU want it. Anything that can be printed out on computer can be put on them. Heavy duty color pictures may cost more due to heavy ink usage, but any

text and/or light graphics can be accomplished within the price. Any profits will be donated back to the club.

I don't know if our usual "Food Guy" will be heading up the kitchen again, but fear not we will keep you fed and happy, I guarantee. We have a reputation to uphold in the "vittles" department. We only ask you to bring a dish to pass to add to the main courses we will supply. More on this later as we approach June.

Get out the word, talk it up. Yeah, I know your Christmas shopping isn't done but you can always add that new rig or tuner to Santa's list, right. See y'all next month. Merry Christmas and Happy New Year to all. *[Sorry, this article arrived after the December edition went to press—Ed.]*

But then again, WHO CARES!

Answer—I DO!! HA!

73, Bill N8SA

Ham University—From Page 2

I can order it at a discount also if we have enough students (minimum order fifteen books) but it is not as big a savings once shipping is paid. I suggest just going online and ordering your own copy.

If you would like to check out the software there is a demo version you can download. It is at:

<http://www.arrl.org/catalog/?item=8735>

This demo runs normally but times out in five minutes, enough time to get a grasp of how it is. I have not tried it yet, but I did order myself a copy. I will have an article next month to tell all about it.

You may register with me by E-mail (preferred) or by phone to:

William01@comcast.net

586-468-0106 Home

BTW, any of you Extras care to help instruct—talk to me. I can always use help.

Bill Chesney, N8SA

CITGO Beginning Change of Name To PETRO EXPRESS

This forwarding is because Chavez is starting to feel the loss of revenue from his holdings. He substantially OWNS CITGO.

This is a very important move that everyone should be aware.

Announced just recently, CITGO, being aware that sales are down due to U.S. (customers not wanting to buy from "Chavez"), have started to change the name of some of their locations, to: "Petro Express"

Do not buy from "Petro Express."

"Petro Express" is also 100% owned by "Chavez."

Reminder: Chavez is head of Venezuela and has vowed to bring down the U.S.A.

—Internet

Meeting Minutes—From Page 4

Trustee: Dennis, W8DFG reported on D-Star, and the problems involved in coordination. Dennis will try to line up a program on D-Star for February, 2007.

Field Day: the FD chair committee for 2007 has been formed and consists of Bill, N8SA, Ray, KD8CXY and Steve, N8XO. Bill spoke about the expectations of the 2007 FD. Will be QRP again next year.

Health & Welfare: notify Walt, WB8E if you know of any ailing members so cards can be sent out.

Old Business: none

New Business:

Bill, N8SA – Ham University – intense weekend of classes for the Technician class to be held on Saturday and Sunday, Feb 25,26. Bill can obtain training software available for a special price \$10.00, but interested parties need to pre-register by the end of January. Contact Bill at n8sa@arrl.net.

FD T-shirts: Walt, WB8E in charge. Requested that If you have a design, please have it ready to give to Walt by the January general meeting.

NOMINATIONS reopened:

President: Chuck, N8ZA; VP: Brad, N8VI; Treasurer: Dennis, W8DFG; Recording Secretary: Ann, KT8F, and Membership Secretary: Ken, KW8Z are all running unopposed.

Dennis, W8DFG made a motion that the secretary cast a unanimous ballot re-electing the slots that are unopposed. 2nd by Bill, N8SA, motion carried.

Elected Board Members: Joe, N8OZ; Walt, WB8E; and Tom, N8ZI.

Motion to adjourn made by Arpad, WY8M at 9:00 PM, seconded by Ray, KD8CXY, motion carried.

Respectfully submitted,
Ann Manor, KT8F, Recording Secretary

USECA VE Testing

Testing will be the FIRST Thursday of the month from September through June. Joe, N8OZ will have the CVE duty. No pre-registration is needed or wanted. Test Fee is \$14.00. Applicants need copies and originals of CSCE's and/or license. There is no copy machine at the Elks; (there is none close by). Starting time is 7:00 p.m. — please do not arrive earlier. Walk-ins are welcomed. Test site is at the Mt. Clemens Elks, 179 S. Main St., Mt. Clemens. If testing, you must have the following: picture ID (or birth certificate); and a copy of your current license or completion certificates, if any.



Jackets-\$45.00 • Sweatshirts-\$25.00
Polo Shirts-\$22.00 • Caps-\$6.00
(2X & 3X-Additional Charge)
Contact: Chuck, N8ZA
At Meetings or Phone (586) 557-4983

Value of Time—From Page 5

To realize
The value of one minute:
Ask a person
Who has missed the train, bus or plane.

Ask a person
Who has survived an accident.
Time waits for no one.
Treasure every moment you have.

You will treasure it even more when you can share it with someone special.
To realize the value of a friend or family member: LOSE ONE.
Remember...
Hold on tight to the ones you love!

The USECA EXPRESS is published monthly (except July and August), by the UTICA SHELBY EMERGENCY COMMUNICATION ASSOCIATION, INC., of Macomb County, Michigan. Club meetings are held on the second Tuesday of each month (except July and August), 7:30 p.m., local time, at the Elks Club, 179 S. Main (between Church and Robertson), Mt. Clemens, Michigan. Visitors are always welcome. Articles for the EXPRESS should be submitted to the editor no later than the night of the club meeting for publication in the following month's edition. **The articles within are those of the author and not necessarily endorsed by USECA.** Material contained in the EXPRESS may be reprinted provided credit is given to the USECA EXPRESS and the author, except material published by permission of a copyright holder. The awards for "Excellent" (1994) and four times "Superior" (1995, 1996, 1997 and 1998) were received from ARNS (Amateur Radio News Service). [Note: ARNS has disbanded.]

USECA Cork Board

? Radio Items?

ALS 600 Solid State Base Amp. No tune 1.5 to 22 MHz. List \$1129.99; sell for \$1000. (Page 86 in AES catalog) Contact Jerry, K8CFY.

GENERAL Radio Freq. Measuring Equipment; 2-6' cabinets; w/all frequency equipment; w/manuals; lots of electronics; \$250.

HEATHKIT Transceiver model HW-16; w/manual. 80-40 & 15 meters; no crystals; \$35.

HEATHKIT SWL radio model GR-81; 160-80-40-20 meters; w/manual \$50.

KENWOOD Linear Amp. 1000 watts, model TL-922A; 160-15 meters; \$1000.

Contact Jose, K8LJM; (586) 792-4602.

HUSTLER 4-BTV Vertical antenna. 10-15-20 & 40 meters. In excellent condition, \$75.00. af8x@arrl.net or home (586) 791 3595, cell 322 4106. Dick

KENWOOD TS-140S. Great condition, in original box with operator and service manual. Only \$395!

LARSEN dual band glass mount mobile antenna model: KG-2/70. It is used, but in good condition. Only \$45!

RADIO Chest Pack. This is an all black Lone Peak Designs radio chest pack. You can strap your HT to your chest just like the pros do! These are the very same chest packs used by public service and search and rescue personnel. Many are also used by Hams during public service activity. It's brand new and costs only \$30! Normal price is close to \$35.

Contact Floyd, W8RO at (248)-431-7769.

MFJ-1786. 10-30 MHz Hi-Q Deluxe Loop Antenna. No control cable is needed. Fast/Slow tune buttons and built-in two range Cross-Needle SWR/Wattmeter let you quickly tune to your exact frequency. \$150.00 af8x@arrl.net or 586 791 3595.

2 REPEATERS. 2 meter and 440. Yaesu Vertex VXR 5000s. CAT 1000 controllers with DVR and WX interface. Wacom cans. Peet Bros weather station. Cabinet. Contact Gerry, K8GER (989) 826-3196.

WANTED: Motorola Expo batteries in GWO. Contact Floyd, W8RO at (248) 431-7769.

? Miscellaneous Items?

CHEVROLET, 2003 Trailblazer 4WD (W8RO/M). Excellent condition, loaded. Sandlewood exterior, Tan interior. 29K miles. Only \$19,995! For more details, contact Floyd, W8RO at (248) 431-7769.

★COMPUTER Monitors 12 14" color computer monitors to give away. They all work and have the power cords. These would be excellent for either a backup or part of a small system. Bill kc8msx@arrl.net

FREE! To a good home: Epson Apex L-1000 Dot Matrix Printer (24 pin). Very good condition with manuals and drivers! Contact Floyd, W8RO at (248) 431-7769.

SONY Trinitron Multiscan E540 21" CRT Computer Monitor with manual; like new; 2 years old. \$150. Contact Joe, K8OEF at (586) 781-0050.

★FOR SALE

American Electrola DXC-100 – rare tabletop radio, only 2000 ever made, all solid state, all American made with only American components, the last USA-made consumer SW radio actually made in the USA, HF receiver up to 30 MHz + FM '3M' band, AM/FM/SW, digital LED display, direct entry keypad, wooden case, front firing speaker, large internal wire loop antenna, long telescopic antenna, ext. jack, power supply, original owners manual; \$95.

Power Supply – switching PS, 12-15 VDC, 16A, works, you wire it up; \$20.

Sprague Model 500 – Interference Locator, apparently used by some clever hams as an SWL rig, receives 550kHz to 220MHz, has a phono jack output, external power jacks, still has original Burgess batteries (no leaks) and antennas in the removable lid; \$75.

Optimus 33-3021 – Uni-Directional Microphone, black, on/off switch, cord; \$20.

ElectroVoice 634A – microphone, short cable; \$5.

Archer Video Selector – Radio Shack Cat.# 15-1261, has 7 F-connectors on the back, couple switched up front; \$5.

Archer Special Effects Switcher -- Radio Shack Cat.# 15-1274, 110V; \$5.

Heathkit Assembly Manual HX-10 – good condition, appears complete; \$10.

Heathkit Manual Deluxe SWL Receiver GR-54 – poor condition, may be complete; \$5.

Heathkit 1984 catalog – good condition; \$5.

Micronta Power Supply -- Radio Shack Cat.# 22-124, 12VDC, 2.5A, manual; \$10.

Realistic WX Radio -- Radio Shack Cat.# 12-156, pocket weather radio, built-in telescopic antenna; \$10.

BUD Filter LF-601 – variable low-pass filter, SO-239 PL-type connectors, 5 adjusters; \$20.

Meissner 15-7510 – "Wave Trap" (filter), 6Mc to 13Mc, for ladder-line; \$10.

Optimus AM/FM -- Radio Shack Cat# 12-794, pocket radio, works; \$5.

Adaptor – RCA-style to PL style (SO-239), have a few; \$1.

1/4" Phono – all metal male phono plug, use for mono headphones and such; \$1.

Dummy Load – "twin tower" dual massive ceramic resistors, looks like 50+W easy; \$15.

NEC Computer Monitor – model XV17+, 17" color, works; \$50.

1N3085 – huge 100V 150A recovery diodes, have one left; \$10/each.

CB Antenna – about 26" long, base loaded, base load is tunable w/2 adjustment rings, 3/8" style mount; \$5.

Cell Phone Mobile Power Cord – for cell phone with 4.8V battery, DC coaxial plug on phone end; \$5.

Wall Warts – various voltages, email with needs; \$2 to \$5.

Duckies – UHF duck about 6" with BNC, \$5; dual band 2M/440 "ICOM" style about 6" with BNC, \$15; 11 Meter black rubber duck with right angle PL259, \$5.

K-40 10/11M Whip – 4' fiberglass, black, tunable, substitute for original K-40 stainless whip & base load, no mount or coax just the antenna; \$5.

K40 -- 10/11M base-loaded antenna with SS whip, no base for it just antenna; \$10.

Regency CB-501 -- 40 ch. CB radio, with mic., "as is"; \$10.

Contact Arpad, WY8M at: wy8m@arrl.net or, 147.180+ MHz (100 Hz PL).

★New or changed this month.

Please notify the editor to have item(s) added and/or removed.

This Cork Board is for club members only and it's free!

Name Badges

WITH THE OFFICIAL USECA LOGO

CONTACT LAURA — (586) 749-4561

USECA APPLICATION



Rev. 9/06

DATE _____ NEW RENEWAL MAIL PRINTED NEWSLETTER
 CALL _____ CLASS _____
 NAME _____
 STREET ADDRESS _____
 CITY _____ STATE _____ ZIP _____
 TELEPHONE # _____ PRINT # IN ROSTER NO
 BIRTHDATE _____ EMAIL ADDRESS _____
 MEMBER: **ARRL** YES NO **RACES** YES NO

FOR FAMILY MEMBERSHIPS ONLY:

CALL _____ CLASS _____
 NAME _____
 BIRTHDATE _____
 MEMBER: **ARRL** YES NO
RACES YES NO

CALL _____ CLASS _____
 NAME _____
 BIRTHDATE _____
 MEMBER: **ARRL** YES NO
RACES YES NO

Annual Membership Dues: Regular: \$20 — Family: \$30 — Mail Printed Newsletter, ADD \$10.00
 Applications can be given to the Membership Secretary at monthly meeting or mailed.
 Please make check payable to: **USECA** — Address: **P.O. Box 46331, Mt. Clemens, MI 48046**
(Allow 4-6 weeks for processing.)

USECA reserves the right to accept or reject New or Renewal Memberships.

Local Area FM Nets

DAY	TIME	CLUB	FREQ.
SUN	1:00 pm	USECA/Information	147.180
SUN	8:00 pm	USECA/Traders/Helpers	147.180
SUN	9:00 pm	HPARC/Info	146.640
SUN	9:00 pm	Garden City ARC	146.860
SUN-SAT	10:15 pm	S. E. Michigan Traffic Net	145.330
MON	7:30 pm	SATERN	147.180
MON	8:00 pm	MECA/Info	147.200
MON	8:00 pm	GMARC (PL 123)	443.075
MON	9:00 pm	USECA/Morse Code Class	147.180
TUE	9:00 pm	Motor City Radio Club	147.240
WED	9:00 pm	ARPSC/Info	145.490
THU	8:00 pm	RACES/ARES	147.200
THU	8:30 pm	LCARC/Info	147.080

VHF PL'S — 100 Hz

On The World Wide Web

USECA Home Page

WWW.USECA.NET

Local HF Nets

DAY	TIME	CLUB/DESCRIPTION	FREQ.
MON	7:30 pm	LCARC/15 Meter CW	21.165
MON	9:00 pm	LCARC/15 Meter Phone USB	21.395
WED	7:00 pm	USECA/6 Meter Phone USB	50.150
THU	7:30 pm	LCARC/10 Meter Phone USB	28.435
THU	9:00 pm	USECA/15 Meter Slow CW	21.140
FRI	10:00 pm	USECA/80 Meter CW	3.710
FRI	11:00 pm	USECA/10 Meter Phone USB	28.425

Listings in **BOLD** are USECA club nets, but ALL ARE WELCOME!

Net Ops Schedules

2-METER NETS

	SUN. 1 PM	SUN. 8 PM**
WEEK	147.180 MHz	147.180 MHz
1	-OPEN-	W1IK
2	KT8F	N8EB
3	-OPEN-	KD8AVF
4	-OPEN-	KW8Z
5*	WB8E	-OPEN-

*If applicable

**Traders/Helpers Net

NCO's—If you're unable to take your net please get a replacement or contact Brian, KC8DIR (586) 749-4561—Don't wait!

USECA

UTICA SHELBY EMERGENCY COMMUNICATION ASSOCIATION, INC.
P.O. Box 46331 • Mt. Clemens, MI 48046

PLACE
STAMP
HERE

FIRST CLASS MAIL



JANUARY 2007

BREAKING NEWS: As we went to press, this information was posted on the ARRL web site on December 16, 2006: "In an historic move, the FCC has acted to drop the Morse code requirement for all Amateur Radio license classes."

"The Happenin' Club"

Club Activities

MONTH	DATE	TIME	EVENT
JAN	4	7:00 pm	VE Test Session
JAN	9	7:30 pm	General Meeting
FEB	1	7:00 pm	VE Test Session
FEB	13	7:30 pm	General Meeting
MAR	1	7:00 pm	VE Test Session
MAR	13	7:30 pm	General Meeting
APR	5	7:00 pm	VE Test Session
APR	10	7:30 pm	General Meeting
MAY	3	7:00 pm	VE Test Session
MAY	8	7:30 pm	General Meeting
MAY	12		Pre-Field Day & Picnic
MAY	18-20		Dayton Hamvention
JUN	7	7:00 pm	VE Test Session
JUN	12	7:30 pm	General Meeting
JUN	23-24		Field Day 2007

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