



# THE MONITOR<sup>TM</sup>



ECARS Web Page: <http://www.ecars7255.com>

The official publication of the East Coast Amateur Radio Service, Inc.

## From ECARS President

Ernie Parsons, W1RXH

Greetings one and all. I want to take this opportunity to thank all of the members who voted this past December. You have elected a very worthy and capable slate of officers and directors, and a comparable selection of appointees has been set in place. It is my hope that much will be accomplished in the coming year. I also want to thank the 2005 officers, directors, appointees, past president, John Zorger WA1STU; past vice president Bob Schneebeli W3EOP; Secretary / Treasurer Charlie Stampf N2CJ; directors Dave Jordan WA3GIN, Al Prindle KA3UNB and Joe Blithe WB3GV; net manager, Joe Reppert WY3T, public relations manager, Mary Popella N3YL, swap and shop managers Roger Schroder N2LAQ and Paul McBride W3ILG web master Paul Colin WA2GRB; Monitor editor, Mike Stone N1VE and board secretary Brad Farrell K4RT. Thanks for the outstanding job you all did during the 2005 term. We are sorry to see Paul leaving but he had other pressing obligations that have taken precedence. Thanks, Paul. We are fortunate to have the very capable Al Prindle filling the spot vacated by Paul Colin. Thanks also to all the appointees who have stayed on for another year. What a treat to have well-seasoned people on the job, contributing to the success of the incoming administration. You are the folks who make the rest of us look good.

The ECARS organization has grown significantly in the past several years. In 2003 the membership totaled 725, in 2004 it rose to around 1010 and in 2005 it was 902. N2CJ our Secretary / Treasurer (Charlie) told me that the FCC restructuring had a big effect on our membership. New general class hams joined ECARS by the dozens. It is my hope that we will see continued growth in the organization in the years to come.

Recently, we have submitted an application requesting affiliation with the American Radio Relay League. There are potentially significant benefits to ARRL affiliated organization including ARRL Club Liability Insurance, ARRL equipment insurance, mailing lists, 50% dis-

*(Continued on page 2)*

## Swap and Shop

by Joe Reppert, WY3T, ECARS Net Manager

It's time to get a little information out there regarding one of the services provided to the amateur radio community by ECARS. Swap and Shop takes place every Wednesday at 11:00 AM and is hosted by N2LAQ Roger or W3ILG Mick. These two fellows do a great job running the swap net and try very hard to accommodate all those who are listing equipment. Occasionally there is some confusion due to newcomers not knowing the proper procedures to follow during the net. This is not a chat net or an informal roundtable where you just key-up whenever you like and make a comment. It is a structured net with guidelines that need to be adhered to.

Keeping with the traditional things in which ECARS is known, the swap and shop net needs to maintain quality, integrity, and good amateur radio practices.

For those of you who cannot be there on Wednesdays

*(Continued on page 2)*

## Swap and Shop

Join us on 7.255 every Wednesday from 11:00 AM to 12:00 noon for the Swap and Shop, hosted by Mick W3ILG or Roger N2LAQ.

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(From ECARS President continued from page 1)

count on club adds in QST magazine and club stationary.

We are also working on an ECARS tri-fold brochure that can be handed out at various functions such as Ham-fests, Ham Flea Markets, and club meetings to name a few. We need a brochure that describes the many ECARS functions and hopefully in the future will contain a membership application making it a two-in-one brochure.

We are fortunate to have a host of very talented people in our fold. Great organizations are generally made up of great people, people who are willing to roll up their sleeves when a job needs to be done. Such is the case with ECARS. There always seems to be just the right person at just the right time at just the right place when a challenge arises.

I'm hoping that this will be a year of continued expansion and progress. Remember, each one of us plays a part in the success of the organization, it's not a one-man show. Thanks again everyone. 

(Swap and Shop continued from page 1)


listings may be submitted via [info@w4ava.org](mailto:info@w4ava.org)

Please take the time to review the following information so that swap and shop will remain the quality net that it is.

#### **Procedures for ECARS Swap and Shop Net Introduction:**

This is ECARS Swap and Shop. My call sign is \_\_\_\_\_ and my name is \_\_\_\_\_. Please direct any transmissions to me. I will be your net control for the next hour. All transactions made from information presented on the net are the responsibility of the buyer and seller and should include information on shipping and insurance which is acceptable to both parties. I will take a list of stations checking in. When you are called, please state your call sign, name, and location. Then list your items according to the following: *The ECARS Board of Directors has adopted the following minimum guidelines for all sellers listing equipment for swap and shop on the web site:*

1. Listed items must be given a price and the seller must indicate whether or not shipping is included in the price (for example: "buyer pays shipping");
2. The electrical condition of the equipment must be indicated as accurately as possible by the seller.
3. The cosmetic condition of the equipment must be indicated as accurately as possible by the seller. If listing persons do not give a price, then the items will not be posted on the ECARS web site. Sellers can still list the item on the swap and shop net but ECARS will require full disclosure if the item is to be posted on the web site, including the price of the item. Obviously, this would not apply to items listed as "Wanted" or "Trade". After concluding your list of items (maximum total of four), supply your contact information. State if you are good on QRZ for email and/or

your phone number. Do not break into the net unless you need a repeat of an item or the contact information for a listing. There will be no contacts between sellers and buyers on the air during the net. 

## **ECARS Board Member's Letter**

**by Dave Jordan, WA3GIN**

Hi folks, hasn't it been an interesting few months? I'd like to thank all of you who took the few minutes necessary to vote in the past election. It was an historic event for ECARS and perhaps amateur radio. The turnout of voters was ok, about 30 percent of those members authorized to use the "members only" section of the web site voted. That is a pretty good turnout when compared to the hard-copy ballots that yielded less than a 21 percent response. Still, in this regard, I think more is better and I hope next year the voter turnout will grow considerably.

The new ECARS administration has hit the street running. I'm sure the president's report will convince you this is in fact the case. Ernie and his administration have been actively engaged in the business and operations side of the net.

The board has also been busy. In the first few months of 2006 the board has studied and voted on two motions. The first motion was to establish an affiliation with the ARRL. The application has been submitted for approval. I expect we'll receive club affiliation before the next issue of the "Monitor" is released. The board also raised the annual dues from \$7.50 to \$10.00 per year. There are many reasons for the increase but they all boil down to the willingness of the administration to grow the organization. Producing brochures to hand out at radio club meetings and ham-fests costs money. Keeping the web site loaded with feature pages and maintaining those feature pages takes a lot of time. Having better application tools to automate some of the manual processes will help the webmasters keep up with the web page maintenance. We've also got two data bases that need to be synchronized. So, rather than dipping into the savings to upgrade programs or purchase new ones we've created an operational budget that will be, for the most part, funded by the increase in dues.

The last time I checked we had more than 700 paid members and over 400 members accessing the "member only" section of the ECARS web site. If you haven't gotten your access to the "members only" section you don't know what you are missing. Give it a shot.

## From New ECARS Director

by Bob Schneebeli, W3EOP

Hello ECARS members. Just a few lines to ask for your patience with me as I am trying to be the best ECARS director as I possibly can. I have never held any office of this kind before so if I make mistakes, please don't give me too many black marks. I'm too old to handle a lot of criticism. Ha ha. I hope that I don't cause too many disruptions within the organization because I might not understand the way things are run. But I'm a good learner and ask a lot of questions, so I don't make the same mistake too many times.

Since I was elected as one of the directors, I am finding that the internal mechanism of running this organization is not as simple as members think it is. The board and officers are a very capable group and are doing an excellent job of keeping ECARS running smoothly. They are always one step ahead of any situation that comes before them. I feel that I will learn much from them, especially from the ones who have been on the board in past years.

The NCS's who run ECARS every day during the week are doing a tremendous job with the service. When conditions are not very good we appreciate the members who help us with relays. ECARS is a fine running group and we should all be proud to be members of this organization.

In closing I would like to say: **The amateur is balanced....radio is his hobby; he never allows it to interfere with any of his duties to his home, his job, his school, or his community.**

See you all at the annual meeting on April 28<sup>th</sup>, and 29<sup>th</sup>, 2006 at the Chateau at Camelback in Tannersville, PA.



ECARS president Ernie Parsons along with the Augusta Amateur Radio Association club president Bill Crowley as Ernie finishes his first speech promoting ECARS at the Augusta Amateur Radio Association's Winterfest at Crystal Falls in Chelsea, Maine on February 11, 2006. KA1MWG photo

ECARS  
Net Manager's Report

Joseph S. Reppert, WY3T

It's the beginning of another year for ECARS and I am looking forward to serving as the net manager of ECARS for another term. We have a full compliment of net control stations who do a great job each day. There are many individuals who devote their time to help make ECARS the success that it is. From the officials who keep the internal wheels turning to the temporary NCS that fill in at a moments notice.

ECARS is on the air each day during the week from 7:30 AM until 3:00 PM. At times, band conditions permitting, the net continues after the daily schedule is completed due to the efforts of members who have some time to spare. Some people ask, "Why not schedule NCS on the week end"? The weekends are not scheduled, as this affords the individual who is a member in good standing to "get his/her feet wet and it is an opportunity for members who cannot participate during the week to try it out and see if they are cut out to be an NCS. There are some of the regular net control stations in the background and they will help a "newbie" get started. The only requirements for weekend operations are being an ECARS member in good standing and checking at the top of the hour to see if another member would like to pick up the net. If there is no one who wants to relieve you, just put the frequency back to regular amateur radio use.

I often hear someone check in and ask what ECARS is all about and they are referred to the website to view the information displayed there. To really find out what ECARS is all about you have to listen to the net in operation. What you will see is a network of amateur radio stations who are ready to meet any situation that comes along, from the guy who just upgraded to HF privileges and needs help getting the bugs out of his station to the most extreme emergency. A friendly atmosphere is also present, building up the confidence of those who are a little unsure of themselves.

During the daily operation of the net, things run along in a somewhat relaxed state with a bit of conversation and the exchange of a bit of information. There is a little friendly agitation from time to time, but don't be fooled, there is a very efficient emergency infrastructure underneath it all and if the situation is warranted it will come to life in an instant.

Let me say in closing that it is great to be a part of this group effort and to be able to contribute.

**Keep Up the Tradition**

## An All-Purpose Multi-band Antenna

by Ernie Parsons, W1RXH

Back in the late 40s and early 50s when mobile rigs were few and far between and when 25 watts was a lot of power, it was necessary to get every watt of power delivered to the antenna. Band switching transmitters and receivers (i.e.) transceivers didn't exist and multi-band antennas were rare at best. It was a design-it, do it yourself world.

As I worked in Boston, Massachusetts, and lived 40 miles west of Boston in the small town of Ashland, MA, it was a lonely one-hour plus drive on route 9 with no one to talk with, so a mobile rig in the car was the solution. In those days it was 75, 20, and 10 meters AM. In the winter the 10 meter band was open into Europe in the early morning, Africa at mid-day, and into the Pacific in the evenings. Along with some short skip in the late afternoon and early evening, it was much the same on the other bands except for 75, which was ground wave all day long and you didn't have a prayer with a mobile rig in the evenings.

So I set out to outfit my 48 Chevy with a mobile rig that would cover 10, 20 and 75 meters. I designed a small crystal controlled plug-in coil AM transmitter with a 2E26 in the final and modulated with a pair of 6AQ5s...a hefty 15 to 20 watts. I powered the transmitter with a surplus Carter dynamotor that gave me 450 volts DC and plenty of milliamps to spare. Thus the transmitter problem was solved. I was able to locate a Gonset Tri-Band converter that I ran in front of the car broadcast radio and that combination made a great 75, 40, 20, and 10 meter receiver.

Now came the biggest problem, a multi-band mobile antenna that would be super efficient considering the low power. This article contains material and construction information that was the culmination of many hours, weeks, and dollars worth of material. However, over the years the antenna has performed like a champion on all bands. The only disadvantage to the antenna is that you have to move the shorting clip from one tap to another on the loading coil when changing bands, but for me the advantages far out weigh the single disadvantage.

There were no commercially available multi-band mobile antennas. The Master Mobile Company made a few bits

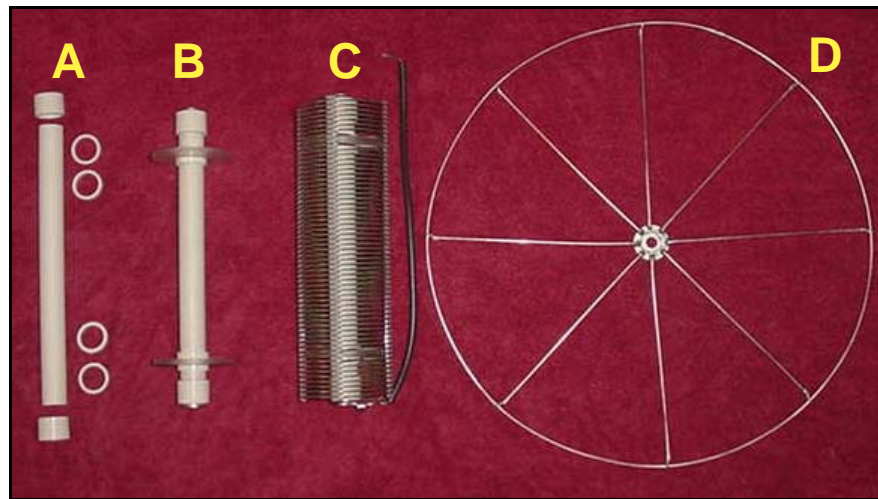
and pieces, which I was able to use: a lower mast section and an upper whip section that with a little modification I was able to adapt to the loading coil center insulator. The center insulator between the lower and upper pieces of the antenna was a challenge. The only material that I was able to get my hands on was some round paper base phenolic. It didn't have very good dielectric strength characteristics. Eventually I was able to find some linen base phenolic which was vastly better. Today I have used a piece of CENOVA/CPVC, which works very well up to and above 150 MHz. The antenna and loading coil has provided me with a host of great DX as well as state side contacts on all bands and continues to do so today including 40 meters.

The Loading Coil plus the capacitance Top Hat are constructed from low-loss materials. The coil windings and top hat are made from #12 solid copper wire. The coil is a Barker and Williamson 3033 Air Duct coil and is three inches in diameter with sufficient space between the windings to minimize the capacitance and keep the Q as high as possible thus minimizing the losses. Also with the large diameter coil and the capacitance, the top hat produces somewhat more horizontally polarized radiation than a small diameter coil without a top hat. The top hat introduces a small amount of capacitance between the top hat and the coil, broadening out the response of the antenna and allowing for small frequency changes without having to retune the transmitter/coupler. There is no question that a monoband antenna without a loading coil is the most efficient way to go, but for mobiles, a loading coil will be necessary especially on the lower frequencies. If constructed properly some of the negative effects of a loading coil can be held to a minimum.

Coils that are small in diameter, made with a small wire, where the windings are close together will often result in low Q and considerable loss. It is also important to make the center insulator out of material that has good dielectric strength characteristics to minimize losses.

As I stated earlier, the material that I used to construct the

center insulator of the coil was a 10-inch length of CTC CENOVA/CPVC, the two-inch diameter Plexiglas spacers are made from 1/8-inch thick sheet Plexiglas. The spacers are held in place with a pair of 3/16-inch wide rings cut from a 3/4 inch PVC coupling, one on each side of the



a. center insulator parts and pieces unassembled. b. center insulator with Plexiglas spacers and rings assembled c. center insulator assembled and installed inside the coil with clip lead attached. d. capacity top hat

Plexiglas spacers secured with a little PVC cement. There are two 3/4 inch x 3/4 inch threaded brass inserts, tapped with a through 3/8-24 thread and pressed into each end of the 10 inch center insulator. A 3/4-inch PVC coupling was cut in half and each piece is pressed over the end where the brass inserts are installed, these reinforce the PVC where the brass inserts are located. I had the threaded brass inserts made at a local machine shop. When all the pieces are in place on the 10-inch center insulator, it is ready to insert inside the Barker & Williamson 3033 Air Duct coil. When the center insulator is centered inside the coil, press one coil winding above and below the Plexiglas spacer trapping the center insulator inside the coil. Do this to both the upper and lower Plexiglas spacers. This can be seen in the photo that shows the center insulator installed inside the coil. Next, on each end of the coil solder a 3/8 inch closed solder lug to the wire, leaving enough slack so the lower mast can be inserted through the lug into the center insulator. Likewise leave enough slack on the top so the top whip can be installed through the lug into the center insulator. Next select the end of the coil that will be the bottom end. At this point either end will work. Next take a 10 inch long piece of flattened RG/58 or 59 coax braided shield, solder one end of the braid to the wire close to the 3/8 inch solder lug. This will always be the bottom of the coil from now on. Next, slide the insulated coax jacket over the shield braid. This will keep the shield braid from shorting to the coil wire. Solder a medium size alligator clip to the other end of the shield braid. The clip lead is used to move from one coil tap to another, each tap will be for a different frequency band. When you change bands you need to clip on to the coil tap that is set for that frequency.

The bottom section of the antenna is a Hustler MO-4 and the top part is a modified Radio Shack stainless steel 102 inch whip (catalogue No 21-903) cut so the overall length of the antenna from the bottom of the ball and spring assembly to the top of the whip is 96 inches, which is 1/4 wavelength at 10 meters. When the coil is completely shorted out with the clip lead, it is in the 10-meter position. The heavy-duty stainless steel ball and spring mount is a Hustler SSM-1. Taps can be located on the coil to accommodate all the HF bands from 75 to 10 meters with a different coil. 160 meters can be done also. The taps on the coil will differ from one installation to another. Finding the tap locations on the coil for the different bands is accomplished by first temporarily removing a coupler from the transmission line if one is used, and inserting a reflected power me-

ter in it's place between the antenna and transmitter. Operate the transmitter in the low power mode, and move the alligator clip at the end of the clip lead along the coil wind-

ings until the reflected power begins to decrease. (Caution there is HOT RF at this point.) I attach a small nylon extension rod to the alligator clip to protect myself while moving the clip slowly along the coil windings until the reflected power reaches its lowest point. Attach a tap at this point on the coil and identify the frequency band. This process must be done for each band. (NOTE: start at the high frequency end first working down from 10 meters.) After the taps have been attached, reinstall the coupler and tune the antenna/coupler as per the transmitter/coupler instruction manual. Remember the tap on the coil must correspond to the band in which you want to operate. The closer that you come to a good match without a coupler the more efficient your antenna will be. The

less external inductance and capacitance you have to use as compensation in the coupler the less loss you will deal with and the higher the output

I am in the process of making drawings and a parts list for all the loading coil components. These will include a price list of all parts. The next issue of the Monitor will include a universal mount that can be used for a boat, camper trailer, windowsill, (etc). If I can answer any questions or be of any assistance, please feel free to contact me via email at [Toyota@gwi.net](mailto:Toyota@gwi.net) or call me at (207) 666 3336. My address is in QRZ.



The completed antenna, loading coil and capacity Top Hat installed on my truck.  
W1RXH photos

## ECARS Patch

This beautifully embroidered ECARS patch will look great on your hat, jacket, or sewn to your favorite article of clothing.

The cost for the patch is \$5.00.

Send your payment to: ECARS, PO Box 5923,



## Protect That Radio Gear

by Dave Jordan, WA3GIN

A consumer Uninterruptible Power Supply (UPS) contains a battery that is charged from a wall outlet. In many cases it's a good idea to have your computer, monitor and printer get power through the UPS. The UPS cleans the power, so it's optimized. This is important, because power fluctuations can corrupt data. Most people think of surges or spikes as dangerous to electronics. But other fluctuations, such as sags in voltage, can be just as damaging and since our ham radios and many of the accessories we add to our ham stations are digital, the risk of damage increases.

When purchasing a UPS, make sure the power rating is right for your equipment. If you buy one that is rated too low, you might run out of juice before you can power down the equipment. Most UPS devices are designed to provide 10 minutes of power. If your equipment requires more power than the UPS is designed to provide, this time will decrease.

When selecting a UPS, you need to look at the Volt Amp (VA) rating - or amps multiplied by voltage (120 volts). The ampere rating should be listed on your computer/radio equipment. Add up the VA ratings of everything you will connect to the UPS, then you'll be in a good position to purchase a UPS with a VA rating 20 to 25% higher than required. Give your system a little headroom for future equipment expansion.

When purchasing a UPS, be sure to look for UL ratings.

Note: There are different kinds of UPS devices. For servers and radio gear, buy an online UPS. Online means outgoing power is always drawn from the battery. This de-

vice is the most expensive kind, and it is about twice the price of other types of UPS devices.

Once attached to an online UPS, your server will always pull power from the battery. If the power fails, the server doesn't need to switch from one source of power to another. The net result is that there isn't even a momentary interruption in power. Also, the battery buffer probably will protect you from lightning strike induced surges. If you have a whole house generator the UPS will carry the load of your expensive equipment (plasma TV, ham radio, computer, etc.) until the transfer from grid to generator takes place. Most home generators start-up after the grid has been off-line for two minutes. This type

system is the best possible scenario to protect all your sensitive electronics.

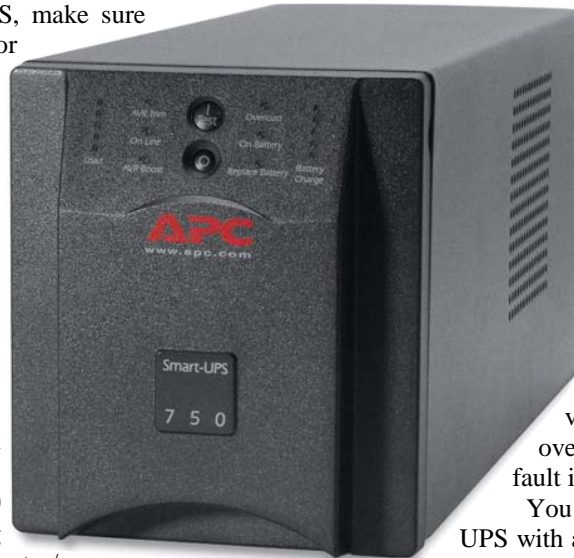
If the battery in an online UPS fails, your server will still receive power. The UPS will bypass the battery and function like a surge suppressor.

Expect to pay between \$150 and \$1,000 for an online UPS. The higher the VA rating, the more you'll pay. There are other features that are nice to have but will raise the price. These include automatic self-test, automatic voltage regulation, audible alarms, an overload indicator, and a building wiring fault indicator.

You might also want to consider buying a UPS with advanced-battery features. These features include intelligent-battery management, battery-replacement indicator, and hot-swappable and user-replaceable batteries.

A line-interactive UPS is less expensive. But when the power fails, it switches your computer to a battery and you will have a momentary power failure, which can endanger data.

Note: A UPS can also power down an unattended computer, and it can filter out electrical "noise" from network lines. This noise can slow data transfer and corrupt data.



## Interesting Links for Hams

Here's a video clip of a portion of a Jay Leno show showing a contest between old school Morse Code vs. 21<sup>st</sup> century text messaging. [http://www.westmountainradio.com/Image/Text\\_vs\\_Morse.wmv](http://www.westmountainradio.com/Image/Text_vs_Morse.wmv)

The following web site tracks the Suit Sat that was recently launched from Sky Lab. <http://www.n2yo.com/>

**ECARS Website**

[www.ecars7255.com](http://www.ecars7255.com)



## ECARS Mug



ECARS custom ceramic 10 ounce coffee mug

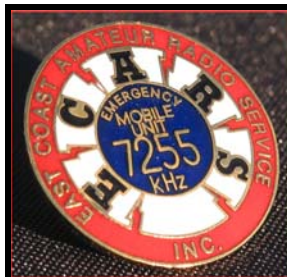
ECARS members can order custom ceramic coffee mugs for \$19.50 including the cost of priority mail. In addition to the ECARS logo you can include your call sign and ECARS number below the logo on both sides of the mug. Or below the ECARS logo on one side you can specify your call sign and on the other side below the ECARS logo you can specify your ECARS number. Choose the orientation of the mug (left or right hand) depending on which logo combination you would like facing you.

You can order the mugs by:

- email; rick@thesignman.com
- using the secure shopping cart; <https://cahaba.net/~thesignm/secure/> (beside "Color Items" click on "Select", then click on "Color Coffee Mug", then type the specifics in the "Enter Details Below" text block)
- by phone; 225-757-1545
- by fax; 225-208-1545
- or by mail; The SignMan of Baton Rouge, 879 Castle Kirk Drive, Baton Rouge, LA 70808-6020

## ECARS Pins

ECARS pins are available from club secretary/treasurer Charlie Stampf, N2CJ. These are beautiful one-inch diameter gold pins with the red, white, and blue ECARS insignia in a very durable glossy finish. The price for one pin is \$3.50 plus \$.60 postage. To order a pin, send your check made out to ECARS for \$4.10 per pin to ECARS, PO Box 5923, Hudson, FL 34674-5923



## Official ECARS Jacket

If you would like to purchase an ECARS jacket / windbreaker, they are available from one of the nation's premier public safety supply companies, Galls, Inc. To purchase an official ECARS jacket, fill out the order form below and send it along with the required payment to ECARS, PO Box 5923, Hudson, FL 34674. Pricing varies depending on jacket size and logo options selected.

Official ECARS embroidered patch is on the front and back of the jacket.



### ECARS Jacket Order Form

Name: \_\_\_\_\_ Call: \_\_\_\_\_

Name and mailing address:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Men's sizes, circle one

M	L	XL	XXL	XXXL
38—40	42—44	46—48	50—52	54—56
(\$19.99)	(\$19.99)	(\$19.99)	(\$23.99)	(\$27.99)

Women's sizes, circle one

M	L	XL	XXL	XXXL
8—10	12—14	16—18	20—22	24—26
(\$19.99)	(\$19.99)	(\$19.99)	(\$23.99)	(\$27.99)

Color, circle one

Navy    Red    Black    Royal

Circle all desired

Large ECARS Logo-Back (\$24.99)    ECARS Logo Front Left (\$9.99)

Front right Name/Call (\$5.99), 15 characters., 2 lines

Name or Call only: (\$3.99)

Shipping: \$10.00

Set up fee: \$5.00

Total order: \$ \_\_\_\_\_

Jackets will be dropped shipped by the manufacturer directly to you. Any overpayments in shipping will be applied to the set-up fee. Order issues should be addressed directly with the Galls, Inc.

Make checks payable to:

ECARS  
 PO Box 5923  
 Hudson, FL 34674

# The East Coast Amateur Radio Service, Inc. (E.C.A.R.S.)

## Membership Application / Renewal

New Application  Renewal. If renewal enter your ECARS Number \_\_\_\_\_ Call Sign \_\_\_\_\_  
Year First Licensed \_\_\_\_\_ Year you first joined ECARS \_\_\_\_\_, ARRL Member  Yes,  No  
Name \_\_\_\_\_  
Street \_\_\_\_\_  
City / Town \_\_\_\_\_, State/Province \_\_\_\_\_  
Zip/Postal Code \_\_\_\_\_ - \_\_\_\_\_  
Home Phone (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Work Phone (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_  
E-mail address. (do not use an alias, e.g. @arrl.net) \_\_\_\_\_  
May ECARS publish your email address?  Yes  No

ECARS Dues:  1 year \$10.00,  2 years \$20.00,  3 years \$30.00

Voluntary donation for a better ECARS  \$1,  \$5,  \$10,  other

I, the undersigned, hereby request a new a continued membership in the East Coast Amateur Radio Service, Inc.

I agree to abide by ECARS Bylaws, a copy which is available on the ECARS website, [www.ecars7255.com](http://www.ecars7255.com).

I understand that my application for ECARS membership is subject to approval by the ECARS Board of Directors, in its sole discretion.

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

Instructions: Complete this form and mail it with a check or money order in United States funds to: **E.C.A.R.S., PO Box 5923, Hudson, FL 34674-5923.**

The ECARS Monitor is published by the East Coast Amateur Radio Service Inc., for the benefit of its members. Full permission to quote from the Monitor is granted, provided a credit line is used. Members' for sale advertisements are run free of charge. Credit card size commercial ads are accepted at a cost of \$15.00 per issue or \$45.00 per year. Send advertisement information to the editor. The Monitor and ECARS do not assume any responsibility for items offered for sale.

Items for the Monitor should be sent to the editor in Microsoft Word or text format, if possible. The deadline for submissions is the 15th of the month preceding the month of publication, subject to change by the Editor. Publication is in Feb., June, Oct., and Dec. The Editor reserves the right to reject, edit, or modify submitted material as necessary.

Membership renewals, address changes, call sign changes, and new applications should be sent to: **ECARS, PO Box 5923, Hudson, FL 34674-5923.** Membership dues are \$10.00 per year. Make checks payable to ECARS, and put your call sign and member number on the check memo. Multi-year renewals are appreciated. Renewals of three years or more will receive a laminated card at no charge. All membership subscriptions begin upon receipt of dues and terminate on December 31st.

ECARS decals are available for \$1.50 each, and pins for \$3.50 each plus \$.60 postage per pin. Send your payment to: ECARS, PO Box 5923, Hudson, FL 34674-5923.

### 2005 ECARS Officers

#### President

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