



THE COUNTY LINE

ROADRUNNER

Published Monthly by the Mobile Amateur Radio Awards Club, Inc.



Volume XXXV

April 2005

Number 4

FROM THE DESK OF THE PRESIDENT



Bill K2NJ

Help Wanted

MARAC is looking for a new newsletter editor, to take over with the August issue of the Road Runner. Roger has agreed to work through the convention and have his resignation effective at the end of July.

Roger, you have served MARAC in several ways, first that I know of is the Awards Manager – then with the coup by the Joisey gang you resigned that post (which was taken over by Gene KD9ZP) and served me as the first VP under the new C&BL. After the last election you served as Editor of the NL... what will be next? Thanks, and as I have said many times in the past... there are members, and there are Do-ers, you are definitely in the last category.

Anyone interested in consideration for this job, please Email Me and we can discuss it. K2nj@marac.org

It is election time folks. Looks like we have Joyce and Randy butting heads for the Presidency of the club, and Mark and John for the VP jobs. Not only this, but we have district directors up for grabs again. So please get out there and vote. Like said in Chicago, vote early and often... but they eat pizza on a loaf of bread out that way...

Winter is almost over and time to plan our trips here and there, conventions etc. I see some people making noise that the Forty Meter net is staying too late and butting heads with some other group, and the NCS stations wont do this or that... Simple enuf, if it gets late in the afternoon... and this other group is trying to establish their net... If no mobile will run, then well, its all over with... I for one wont go to 40 SSB after 4PM eastern, if others follow then there wont be a problem will there? As for 30M CW, all is fair and nobody owns anything... right?... And no contesting is allowed on the WARC Bands – people out there will cry, but if nobody listens, then who cares.. hi.

Just got the RV serviced just in time to see the gas prices hit the roof... go figure... hi... We will be finishing up VA on this trip prior to the convention, mostly in the south central part of the state... Then dash back home and then up to VE9 again...

This year is Roanoke, VA..... 2006 is hosted by W9OP in Wisc. 2007 will be in Denver, hosted by W0NAC and KC0QER... then continue west 2008 will be in California hosted by KC6AWX – probably in the same place as last time, then head east a bit to Texas again hosted by WB9NUL and hubby, this concludes 2009... WOW... I cant remember ever having people fight for hosting the conventions...

I have had antenna problems with the KT34XA swinging anywhere it wants. Had a buddy climb up there last night and found the bolts vibrated loose, and he tightened it a bit... but that wont hold long... I have had problems for a while now with the indicator not knowing where the ant was pointed, the control wire was contaminated so I ordered 225 feet of it and it will be replaced next week... then once calibrated he will drill and pin the rotor to the mast. I will be back...

That is about all for now. Hope to get time to do another column or two before the convention, but I have problems getting down to the PC and Radio room. Must keep my feet elevated most of the time and those gentle four steps between the laundry room and the Radio Room... well, they are getting higher and higher every day... Health problems are multiplying and I am now off to see three different specialists – not looking too good. 73' Hope to see you in Roanoke, Bill Inkrote, K2NJ

MINUTES
MARAC BOARD OF DIRECTORS AND MEMBER MEETING
Date: March 9, 2005

The Meeting of the MARAC Board of Directors was called to order at 0800 PM EST (0100Z) by Bill (K2NJ).

The Officers present were:

President	Bill Inkrote – K2NJ
Vice President	Joyce Boothe- WB9NUL
Secretary	Norm Ellison – W2IBB
Treasurer	Jim Grandinetti – KZ2P
North Central Director	John Robson – WB9STT
South Central Director	Mike Fatchett – WOMU
Pacific Director	Robert t. Devine – KC6AWX

The Members present were: K5RPC, K8GPC, K8QWY, N4XML, W3CR, W5UGD and others.

Upon a motion by John (WB9STT) and seconded by Norm (W2IBB) the minutes of the January 12, 2005 meeting were approved. Roll call indicated 6 in favor, none opposed.

Upon a motion by Norm (W2IBB) and seconded by Bob (KC6AWX) the Treasurer's report of December 31, 2004 was accepted. Roll call indicated 5 in favor, 1 abstention and none opposed.

OLD BUSINESS

None at this time.

NEW BUSINESS

A. Bill (K2NJ) announced that MARAC is looking for an Editor for the newsletter. He said that he would put the announcement in the newsletter. He also announced that Dennis (KK7X) would remain as MARAC's Web Master.

B. Mike(WOMU) discussed the following topics:

1. He proposed that we move the MARAC web sight be moved to a completely independent server. Bill (K2NJ) stated that since Dennis (KK7X) is the Web Master, it is his decision what server would be used.

2. MARAC Logos. It was stated that there is no "official" MARAC logo. The tire and the bird logos have both been used by MARAC members, but neither have been registered as trademarks. MARAC has no control over their use or modification.

3. The 3M convention. Since the 3M is/was not a MARAC sponsored event, there is nothing that the Club can do concerning it's termination.

C. Mike (WOMU) moved that we award a certificate of appreciation to Bob (KK5MI) and his wife for their efforts in organizing the South Central Mini. Second By Joyce (WB9NUL). Roll call indicated 6 in favor, none opposed.

OPEN MEETING

Nothing at this time.

A motion to close the meeting by Bob (KC6AWX) and seconded by John (WB9STT) was made. Roll call indicated 6 in favor, none opposed. We adjourned at 8:20pm EST.

Respectfully Submitted,
Norm Ellison W2LSH
Secretary, MARAC

DATELINE CW**By Ed, KN4Y**

CW is a psychical storm, agitating to fathomless depths the mystery of past silent keys. Or we might say that it is a prodigious incantation.

Why is time in such a hurry? Already it is April first and Gator has just arrived at the shack. I am working on a magical new antenna for county hunting, "Hey Dude, It is storming out there but April showers bring May flowers, what you up to?" "I am working on a vertical antenna that with an input of one Watt produce a effective radiated power of 1000 Watts." "That sounds like serious design, tell me how it will work." "I was watching the explorer channel and the program was how the human brain uses electrical, magnetic, and chemical activity to transmit information to our bodies. I figure when the body dies the brain is not destroyed for a period of time. I reasoned why not preserve and use portions of a human brain as the radiating element of an antenna? To test my hypothesis I went down to the Diet No'Mo crematorium and asked Jerry if I could have the brain of a few cadavers prior to down sizing." This got Gator's attention and he gets two cool ones out of the cooler and pulls up a chair. He hands me a cool one and motions me to continue.

"I used my Dremel cordless saw and removed the brain from several cadavers. I put each brain in an empty peanut butter jar containing formaldehyde." "Wow, Dude you be a Doctor Frankenstein." "Hush Gator." I take a cool swig and continue," The brain operates up to 40 Hz. I got the meat slicer from the kitchen and sliced the brain into a square. I calculated the width and thickness that would amplify an input signal for 10, 15, 20 and 40 meters based on studies using a magnetoencephalogram" "How about 30 meters?" "Darn, skipped my mind, will do that next. "What be your calculations?" "That will be in the patent." Gator points to the table.

"What be in that jar over there Dude?" "That is the brain from a blond. It had good magnetic readings but no electrical conductance. I could not use it." "Can I have it, I always wanted the brain of a blond." I bite my tongue and shake my head yes. "You ever thought of moving to Texas?" "No, why?" I point to the cooler. Gator gets two more cool ones. "May I continue?" "Yes."

"I needed a frame to put each slice in and enclose with glass. If not the birds would eat my antenna." "Makes sense, good brain food." I give Gator the evil eye and continue, "I ran a few tests and found that platinum has the necessary valences, is ductile, and does not oxidize in the air." "Where you get the platinum stuff Dude?" "Well I remembered Joyce who has real platinum blond hair. You could actually pass a current through it, which she did not like," Gator is laughing, I remember her. When I keyed my CB rig her hair would stand straight up." "Well I got her to come over and I washed her hair with vinegar enhanced Gator Aid. I saved the liquid and filtered it through filter paper at the school using their vacuum system." "That be a Gooch filter." "Right Gator, how did you know that?" "That is how I check each batch for solids content." "Should have known. Then I used the schools plasma oven to melt and make the frames. It worked quite well."

"Next I ordered a sheet of soda lime silica glass to enclose the brain in the platinum case. Next I applied vacuum and sealed each case to prevent air oxidation. I have mounted each square at right angles to each other using high cost conductive cement. The total height of the vertical antenna is ten inches and has the characteristics of a half wavelength antenna for whatever band it is tuned. I connect each square in a delta sequence to maximize amplification. Lastly I connected a PL-259." Gator hands me the MFJ 259 analyzer and we find the SWR is flat on all frequencies, even sideband. "That is awesome Dude."

"I see you have 10,15,20 and 40 but what is the other case for." "That Gator is the brain from a preacher. I figure that would enhance DX contacts." "I notice a case on the table, why did you not use it?" "That Gator is the brain from a lawyer." "So what?" "I may try it later after I get my patent." Gator gets a couple more cool ones; he does not want the brain of a lawyer.

"Are you going to let the Texan antenna expert Barry do some test runs?" "No, he is to old fashion, he still believes $E=IR$." "I will be able to have the strongest QRP signal and win all the contests. I will make millions selling this small but dynamic antenna to county hunters." Gator looks skeptical, "What could possibly go wrong?" "Prospective buyers may look at the month of this newsletter."

Advancements in County Spotting

W5UGD / John M. Hoyt – amicon@superhosts.net

Major advancements in county spotting have taken place. Before I explain what they are, it is probably best that I first explain county spotting history.

In 2003, a group of us started a chat channel using IRC that allowed us to initially just post a spot, or an announcement that a mobile was running, who they were, and where they were. This was great, it permitted us to keep up with 20m and 40m nets during the 3M, and not miss any counties. In fact, AF3X and myself ran the two nets, and were even announcing on the nets that “Pigwaller, AL is running on 40m” when we would start a mobile on 20m, and vice-versa.

After a while, I wrote a script that permitted these “spots” to be put to a special window. And before long that script evolved into an alerting mechanism too, where county hunters could input their needed counties, and if one ran, the script would alert them, so if they were having dinner, they would not miss out on a county they needed.

Then, after many suggestions, and with the help of AF3X, the script was expanded to allow the county hunter to define ONLY CW spots, or ONLY calls good for Master’s Gold, so they would not be alerted for counties running that were not usable for the award they were seeking.

Again, the script was improved to allow for email or text messages to be sent to a phone or pager in the event a “special need” was spotted.

That is when it hit us. We needed to take this whole cht.mrc script and spotting to the next level. AF3X and myself set out to fully automate this whole procedure, and that is where we are today. The latest version of the script allows all of the above features (and many more not mentioned) in addition to Fully Automated Unattended Mode, or FAUM.

Once you download and install the new script, you can connect a serial cable and audio cables between your ICOM/Kenwood/Yeasu rig and your computer, configure the script with the special needs, and record a few simple phrases such as your callsign, “two two”, “minimum minimum”, “five five”, “also”, etc, and start the script running.

When a spot is made for a county you need, the script will give you an audio alert, and/or page you, and if you do not respond within 60 seconds, it will tune your rig to the frequency spotted, “listen” for a “QRZ” using voice recognition, and then key your rig, and send out your callsign (using the audio sample you configured), and upon determining that your callsign was given a report, it will return the report using an “also” and the signal report, as configured and recorded by you. It also interfaces with most popular logging programs to automatically log the contact.

The release date for the script is set for the first of April, so if you have not updated, you might want to do so immediately.

Keep those suggestions coming!

John M. Hoyt / W5UGD

Script: www.SuperHosts.Net/cht.mrc

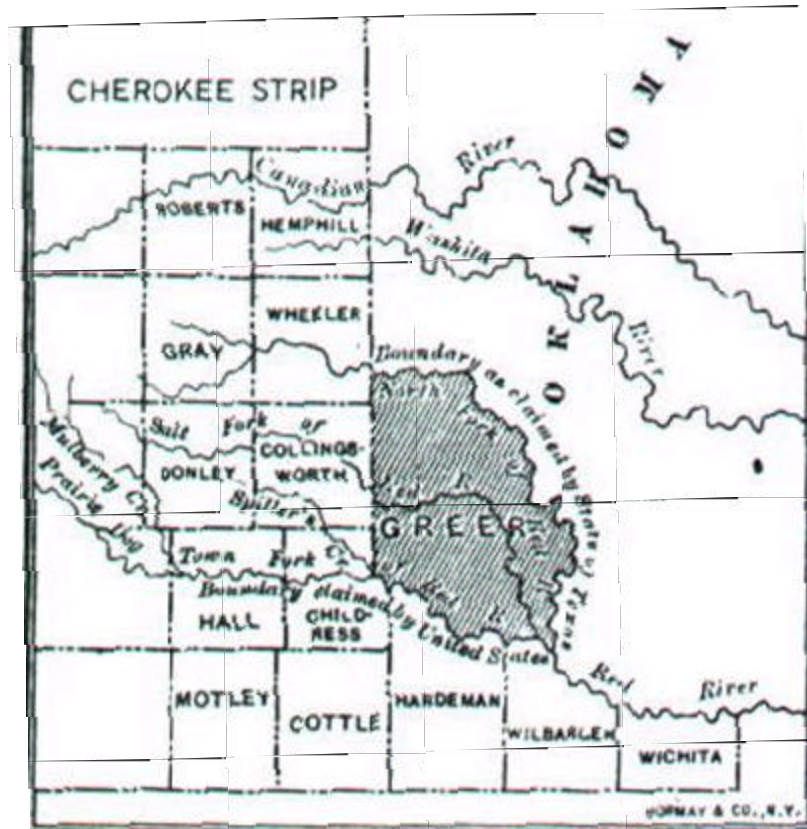
Webspots: <http://spots.SuperHosts.Net>

Hey, Anyone Need Greer County, Texas?

Well, unless you have access to a handy-dandy time machine you are out of luck. If you can find one then put the dial on 1930 and you might get it with your spark-gap and crystal decoder rig.

Until 1930 Greer County in Texas was located just above Hardeman County TX between the Prairie Dog Town Fork and the North Fork of the Red River with a Western boundary of Longitude 100. In 1930, after negotiations and references to treaties with Spain and/or France which were entered into before Texas became independent, it was decided that this land should not be in Texas. So it then became Harmon, Greer, and Jackson Counties plus much of Beckham County in Oklahoma. Just thought it might be of interest even though it has no County Hunter relevance now.

. 73 Hank W5VD



MAP SHOWING TERRITORY DISPUTED BETWEEN
UNITED STATES AND TEXAS, CALLED GREER
COUNTY.

The County Hunter Of The Year

Charles Theisen Election Coordinator

The County Hunter of the year awards are presented at the national convention each year, and this year is no exception. This is another one of those club member participation projects. The club needs your input. For starters, go to the club website, <http://marac.org/> and look in "Information" and the drop down menu, "awards Information" and the second drop down menu "Awards and Fees". You will find everything you ever wanted to know about "The County Hunter of the Year Awards" on page 15 of this very well presented information sheet. If computers aren't your bag, check with your District Director for more information on this award and the procedures to follow. Now that our education is complete, let us proceed. We need to have candidates by April 1 to meet time constraints.

Mobile Amateur Radio Awards Club
Treasurer's Report**March 31, 2005**

Funds Balance	2/28/05		\$28,051.44
Income:			
Awards		\$642.00	
Dues		\$480.00	
Interest		<u>\$4.77</u>	
			\$1,126.77
Expenses:			
Gene Olig – expenses		\$210.45	
Stafford Engraving - Awards		\$145.00	
Fairmont Awards - Awards		\$285.84	
Print-Right, Inc – newsletter		<u>\$409.32</u>	
			\$1,050.61
			<u>\$76.16</u>
Account Balances:			\$28,127.60
Money Market Account		\$28,869.07	
Checking Account		<u>\$1,258.53</u>	
			\$28,127.60
Note:			
The following monies are not included in the above:			
Awards Chairman's Funds		\$1,200.00	
2004 Convention Chairman's Funds		\$2,500.00	

Election Coordinators Report
April 1, 2005**Here is a report of activity to date.**

The following County hunters have placed their name on the ballot which will be presented to the membership for their consideration in June of 2005.

President: WB9NUL, N8ELQ Vice President: W5UGD, W9OP

South Central District Director: W0MU North Central District Director: WB9STT

Great Lakes District Director: K8GPC

We can use more candidates. All our directors are unopposed. Nominations will remain open until April 30th. After that date it will be too late to get on the ballot. If you would like to serve, now is the time. This is the last notice prior to nominations closing. Please contact k9ia@arrl.net at your earliest convenience to get your name on the ballot.

Deadline April 30th, 2005

Contact your district director with your **County Hunter of the Year** candidates. It is critical that this is done as soon as possible. Time is getting short. I know that it seems like the convention is a long way off but, soon it will be too late. Could it be that the membership feels that we have no qualified county hunters for these awards? That is very hard to believe.

73, K9IA Charles Theisen Election Coordinator K9ia@arrl.net (920) 921-1605

N5563 County Road K

Fond du Lac WI 54935

**Major Awards Issued For The Month Of
March**

KD9ZP - Awards Manager

Award	Number
LC-1	171
LC-2	8
LC-3	6
All Others	43

Other Awards

Call	Date	Award	Number	Call	Date	Award	Number
ND3T	3/10/2005	5 Star	20	KE0AY	3/6/2005	BINGO	264
WQ7A	3/30/2005	Last County Count	125	WD9EJK	3/30/2005	Last County Count	150
N0ZA	3/30/2005	Last County Count	175	NA7W	3/30/2005	Last County Count	300
N9QPQ	3/30/2005	Last County Count	350	AC0B	3/30/2005	Last County Count	50
W0QE	3/2/2005	USA-CW	74				293
		K6OHM	3/3/2005	Worked all Counties	3rd Time		185
		ND3T	3/10/2005	Worked all Counties -	5th Time		72
		K5RPC	3/21/2005	Worked all Counties -	5th Time		73

USA-CA

Issued By K1BV

Call	Award Date	Certificate Number	Call	Award Date	Certificate Number
AA4VN	3/1/2005	1114	KF7CT	3/2/2005	1115
N2OO	3/5/2005	1116	KM9X	3/8/2005	1117
W4OV	3/14/2005	1118			

April Birthdays

AA9JJ April 2	AA4QE April 2	N3AHA April 3
KQ0B April 6	KB5VTB April 6	W9SUQ April 6
KA2CNG April 7	AA8HH April 7	KE7PB April 8
KM5W April 9	W4RKV April 10	K4HVB April 10
W7KQZ April 11	KW8T April 12	WB8RJW April 12
NA7W April 13	W6TKV April 13	WA0LMK April 14
W0GXQ April 14	KA2MKQ April 14	KA0DDJ April 14
W9OP April 16	WB9NUL April 18	W7LES April 20
W0NAN April 23	K2HVN April 24	W3LJT April 24
W8ILC April 24	KQ1Z April 27	N5KGY April 27
KF4KW April 29		KA0SHC April 30

If your birthday is not in the database at:

www.marac.org/database

Send it to: kd9zp@marac.org

MARAC Board Meeting

Schedule for 2005

May 11 June 8

JULY AT THE CONVENTION

Deadline For The

May

RoadRunner

Is April 25th

Please Welcome Our New Members And Add Them To Your Data Base

Marac No.	Call	Full Name	Address	City and State	Home County	Phone Number
R-3176	N5UZ	Joe G Watkins	148 Allen Watkins Lane	Dewitt, AR 72042	Arkansa	1-870-946-832
						jgwatkins@cpomail.net

37th Annual MARAC National Convention
21 July – 24 July 2005 Roanoke, Virginia
Convention site: Wyndham Roanoke Airport Hotel

NAME: (First MI, Last) _____

ADDRESS: _____

CITY _____ ST/PROV _____ POSTAL CODE _____

Convention registration fee and 1 (one) prize ticket \$ 35.00

NAME ON BADGE _____ CALLSIGN _____ USACA# _____

Additional Name Badges (list information below) Total # _____ @ \$5.00 each = \$ _____

Name _____ Callsign _____ USACA# _____ Relation _____

Name _____ Callsign _____ USACA# _____ Relation _____

Name _____ Callsign _____ USACA# _____ Relation _____

Relation: W-Wife, H-Husband, D-Daughter, S-Son, M-Mother, F-Father, X-Friend, GD-Grand Daughter, GS-Grand Son, for any additional badges please attach or list on back of form.

Enter number of persons that will attend events

Thursday 21 July

Tour of Monticello/D-Day Memorial #Adults _____ X \$30.00 = \$ _____

Friday 22 July

Tour of O'Winston Link and

Virginia Transportation Museums #Adults _____ X \$20.00 = \$ _____

Dinner Cruise – Virginia Dare #Adults _____ X \$36.00 = \$ _____

Saturday 23 July

Banquet – Roast Sliced Sirloin #Adults _____ X \$25.00 = \$ _____

of Beef

Banquet – Chicken Forestier #Adults _____ X \$25.00 = \$ _____

Prize Tickets

Ham (singles) _____ X \$1.00 = \$ _____

Ham (Book 12 tickets) _____ X \$10.00 = \$ _____

Cash (singles) _____ X \$1.00 = \$ _____

Cash (Book 12 tickets) _____ X \$10.00 = \$ _____

Mail Registration Form and Check to: Total Amount Enclosed \$ _____

MARAC 2005 Annual Convention

C/O Jerry Haislip – K1SO

P. O. Box 13741

Roanoke, Virginia 24036-3741

Please make check payable to
2005 MARAC Convention

Hotel Reservations – call direct to Wyndham Hotel 800-996-3426 or 540-563-9300

Mention "Amateur Radio 2005 Convention"

Room Rate \$69.00 Single/\$69.00 Double plus 12% tax

Pre-Registration cut-off date – July 1, 2005

The Invitation is out for you to attend the National Convention 2005

Virginia is famous for their Virginia Hams – I guess a few might be showing up in Roanoke for the MARAC 2005 Convention. Some out of town guest just might leave with one. You never know!

To answer some questions, there will be a CW meeting during this convention. With Ray/AB4YZ at the helm (Chairman of the Convention) and being the CW OP he is, you don't think he would miss the chance to meet and greet all those that work him from county to county! Also there will be prizes and lots of things to do and see.

For the avid shopper in our group, one of the biggest shopping malls in the Roanoke area is located just across the interstate from the Convention location. Lots of stores, eating places and great for the morning walk.

The Convention Committee has been checking their list and checking is twice, and by the way, after a comment like that, the Convention is in July. The tours are lined up and all we need are folks to join us on the trip to fill the bus. The Virginia Dare dinner cruise is just waiting for a fun trip on Smith Mountain Lake, with 500 miles of shoreline, near the Roanoke area. Book early, we want everyone to be on board.

The Wyndham Hotel awaits your reservations, just call (800-996-3426) and tell them you are coming for the "2005 Amateur Radio Convention" they'll get you set up.

Convention Registration at the Hotel for guest, will be open from 3 p.m. until 9 p.m. on Wednesday, July 20th, and open each day from 8 a.m. until 5 p.m. Thursday, Friday and Saturday of the Event. If arriving late you will be able to pick up your registration packet in the MARAC Hospitality Room–Hospitality Room number and hours will be posted in the Wyndham Hotel Lobby.

If you are interested in a round of Golf, please drop WM3T@wm3t.com or K1SO@aol.com, an e-mail and we will try to get some tee times at one of the local courses. Countryside Golf Course is located within a few miles of the Wyndham Hotel.

The website address was given incorrectly in the last few issues of the RoadRunner (typo on my part, not that of the RoadRunner staff), so for those that have not taken a look or could not link, please do so at the correct URL, see below. Plans for this website after the Convention will be to have photo album of the Convention for all to enjoy. So bring your camera and after you leave send us a disk of any photos you enjoyed taking while in the area.

Check out the event website at, www.MARAC05conv.com - you can get a printable registration form and find out about all the events planned for the Convention.

TOURS AND ACTIVITIES

Thursday – Bus will pick-up at 8:00 a.m. from Hotel and return to Hotel.

Tours of Thomas Jefferson's Monticello in Charlottesville. and
The National D-Day Memorial in Bedford, Virginia. All day tour,
a stop will be made for Lunch. Limited to 55 seats, register early.

Friday – Bus will pick-up at 9:00 a.m. from Hotel and return to
Hotel. Tours of O'Winston Link Museum and Virginia Museum
of Transportation. Downtown Market area stop for Lunch.

Friday (dinner cruise 7:00 p.m. - 50 Seats) Own transportation – Smith Mountain
Lake, (approx 45 minutes from Roanoke area)

Dinner Cruise on the Virginia Dare and tour of Lake area.

CONVENTION ACTIVITIES

Hospitality room – Meetings and Forums (Saturday) –Saturday

Night Banquet Dinner – Drawing for Prizes at Banquet – Awards

The County Line Roadrunner
MARAC Secretary
117 Hayden Ave.
Pass Christian Ms. 39871

“A Road Runner Is A Very Fast Bird”

Board of Directors

President: Bill Inkrote, K2NJ, 911 Route 579 Flemington, NJ 08822-5648 908-788-4827 K2NJ@MARAC.org

Vice-President: Joyce Boothe, WB9NUL, 21175 FM2556, Santa Rosa, TX 78593 1-956-636-9161 WB9NUL@MARAC.org

Secretary: Norm Ellison, W2IBB, 117 Hayden Ave. Pass Christian MS. 39571, 228-452-1807, W2LSH@MARAC.org

Treasurer: James Grandinetti, KZ2P, P.O. Box 770777, Naples, FL 34107-0777 732-370-8055, K2JG@MARAC.org

Great Lakes Director: Randy Davis, N8ELQ, 1894 Sheick Road Monroe, MI 48161-9468. 734-587-2454 N8ELQ@MARAC.org

North Central Director: John Robson, WB9STT, 150 W. Wise Rd Schaumburg, IL 60193, 847-891-3906, WB9STT@MARAC.org

Northeast Director: Donald L. Kimble, AE3Z, 242 Leisure LN Horseheads NY, 14845-4005 USA 1-607-795-4342, AE3Z@MARAC.org

South Central Director: Mike Fatchett, W0MU, PO Box 3500, Parker, Co. 08134 1-303-790-4611

Pacific Director: Robert T. Devine, KC6AWX, 407 Alameda Del Prado Novato, CA 94949-6302, 415-883-8980, KC6AWX@MARAC.org

Southeast Director: David Splitt, KE3VV, 6111 Utah Ave, N.W. Washington, DC 20015-2005, 202-362-3355 KE3VV@MARAC.org

Appointees

Awards Manager: Gene A. Olig Sr., KD9ZP, PO Box 2295 Fond du Lac, WI 54936-2295, 920-923-0130, KD9ZP@MARAC.org

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Election Coordinator: Chuck Theisen, K9IA, N 5563 County Road K, Fond Du Luc, WI 54935 920-927-1605 K9IA@MARAC.org

MARAC General Counsel: David Splitt, KE3VV, 6111 Utah Avenue NW Washington, D.C. 20015-2461, 202-362-3355 KE3VV@MARAC.org

MARAC Historian: Eldon “Sonny” Sanders, W5D VW 4161 Old Barker Ranch Rd. College Station, Tx 77845 W5VDW@MARAC.org

MARAC Webmaster: (See Information Coordinator)

Membership

Dues with a printed copy of the Newsletter are \$19.00 per year. Dues with an Electronic copy are \$14.00 per year. Dues with the Newsletter mailed to all continents other than North America 30.00 a year.