

Volume XLI

July 2011

Number 7

From My Point of View Joyce, WB9NUL

The year is just flying past much too quickly. I have just returned from a stitching seminar in Austin Texas where I learned some new stitching techniques. Yes, I have more than one hobby. In less than a week I leave to go to the National Convention for MARAC. I'm excited to meet new people and to renew old friendships. At the end of July Barry and I are flying up to Chicago to take the kids and grandkids to a Cubs game where we have rented a Mezzanine Suite! What fun for all of us! August is another stitching seminar in San Antonio, TX and then from there off to the hill country for a stitching retreat. September I am off for Naples, Fl for a National stitching seminar. Way too much flying and no chance to put out counties....boo!

Please watch for the annual report to see what has happened during the past year. Special thanks to W9JL, Jim and W0OWY, Bob for reviewing the treasurer's books.

having some nearth is	ssues and	a she and I would appreciate it if you would add
Contents		her to your prayers.
2011 SE Mini Awards Awards Manager's Report Birthdays Dateline CW Election Results From My Point of View History Happens July Calendar MARAC QP New Members Treasurer's Report	5 8 9 7 2 8 1 4 10 11 3 9	Stay cool and hope to see you in Duluth or on the air. 73, Joyce

I have a special request to the members of MARAC. My daughter is having some health issues and she and I would appreciate it if you would add

ROADRUNNER

Dateline CW Ed, KN4Y

A CW county hunter's fist is the only moving tool that grows keener with constant use.

Gator just arrived with two super sized coffee lattes and a box of éclairs injected with Bavarian cream, I hope. We unfold a road map for the State of Florida and Georgia and place them on the work bench. We are preparing a route for the 2011 U.S. Counties QSO Party that was previously called the MARAC county hunters CW contest. "Dude why was the contest name and operating date changed?" "The format was changed from a 48-hour contest period to a Saturday and Sunday two operating period format used in many State QSO parties. Both the Sideband and CW contest are now on the same weekend. Scott KA3QLF, is the chief honcho, why not send him your suggestion for a name." "I will, we are county hunters, so I will suggest it be called the County Hunter QSO Party." "By the way we are going to operate only on Saturday, I have a Sport bowling tournament Sunday. " "You cannot win giving only a part time effort." I dismiss Gator's wisdom as a good guess.

Gator picks up a round glass bottle setting on the desk, "What is in this bottle Dude?" "That is Coconut Shampoo, it contains coconut milk." "How do milk a coconut?" "You use a tall stool." Gator mutters something and goes to the computer, "I want to see how we did operating mobile in the Alabama QSO party." I am laughing too hard to sip my coffee latte, "Go for it." Gator does his computer thing as we sip our lattes.

Gator smiles, "We did good Dude." "We?" Gator ignores my comment, "WE traveled 718 miles through 15 Alabama counties. YOU made 691 QSO's, not even a QSO per mile."" I would have had you not kept stopping for a Haagen-Dazs on a stick." My apologies to Jeff Dunham. The weather was great and the bands good, actually made 48 QSO's on 15-meters and one QSO on ten meters, the remainder on 20 and 40-meters. "I noticed when we went through the counties where they had the forest fires that logging trucks were hauling blackened pine trees. What are they going to do with them?" They will make carbon paper." "What is carbon paper?" I go and look in the mirror to see if that joke is really that old.

Gator picks up a large plain white envelope and opens it, "You got another certificate. You came in seventh place in the world in the Ten-Ten CW QSO party, last place again." "No, there were more entries in this QSO party." Gator is not paying attention and brings up the West Virginia QSO party log;"You got 30 QSO's on CW, there is not that many CW operators in West Virginia." "Cool down Gator, there were two mobiles running, and I got two no-stars." Gator is running the Stew Perry contest log; "Only 3 QSO's, did you get drunk and pass out." "No, it was not a night for low power and I had many repeats to get the three QSO's." Gator shakes his head as he heads towards the cooler. There is the sound of Gator's phone. "I have to go pronto, we will get to the field day log later." Gator

is gone like an 807 at the MARAC convention.

The printer stops and I look at the print out, it is a list of the mobiles that ran on the CW frequencies during June. You can tell it is summer time. AA1AV, AA8R, AA9ZZ, AB7RW, AI5P, K0ARS, K0FG, K0RU, K2HVN, K4EXT, K4YT, K7TM, K8ZZ, K9JWV, KA4RRU, KB0BA, KB6UF, KC7YE, KG4VBK, KG5J, KG5RJ, KN4Y, N2OO, N3TG, N4AAR, N4CD, N4HIM, N4JT, N6HH, N8II, N9JF, NM2L, NT2A, W0EAR, W4HSA, W4SIG, W6TMD, W7FEN, W8FNW, W8GEJ, W9MSE, W9OP, WA4UNS, WB2ABD, WD4OIN, WY7LL

I look at the Contest Corral to see what operating events a CW county hunter can do until the big US counties QSO party at the end of the month. There is the Canada Day contest a fun event with plenty of CW activity. There are the IARU HF world championships, the CQ WW VHF contest and the IOTA contest. July is a good month to favor airconditioned activities. The MARAC convention is this month; I wish they would set up a radio station like in the by-gone days, I could work Bozo. Nap time.



New Members

MARAC Number	<u>Callsign</u>	<u>Name</u>
R4460	KK5NĂ	Joe Spencer
R4461	N9WNN	Steven Stuckey
R4462	KB9NPO	Diana Stuckey
R4463	AA0TT	Daniel Cook
R4464	W6UI	Donald Huckaby
R4465	K9EZ	Kent Winrich
R4466	KR9Z	Robert Zolecki
R4467	N7NU	Lee Hallin



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History Happens Gary, K4EXT

The new US Counties QSO Party is all set for the end of July. Soon folks will have to decide whether to go out mobile for the contest or to stay home and work the mobiles ... or maybe even do a little of both. Soon folks that do go mobile will have to decide whether to run CW or SSB ... or maybe even do a little of both again. Soon we will see trip plans posted on the K3IMC County Hunter web site ... some on a detailed county-by-county basis, others on a "Look for us in Northeast Tennessee" kind of thing.

Scott, KA3QLF, our infamous albeit relatively new MARAC Contest Coordinator (and dude that still needs to go fetch Montgomery County, PA for me if he really wants that \$2.00 LC1 sticker), Emailed some information concerning what is thought to be the first ever County Hunter's Contest held back in 1967. The contest coordinator at that time was John Shannon, K3WWP and the contest was sponsored by the CW County Hunter's Net. Portions of his post-event summary are quoted as follows:

"The first CH Party seems to have been a big success. There were 75 logs received and in checking them I estimate about 350 counties in every state but Hawaii were represented, along with about 30 DX countries. Thanks to the stations who took the little added effort to make their logs easy to check by making them legible and adding some kind of a county check list."

Contest leaders were K6BPC (multi-op) with 401 contacts and 188 counties ... WB6KBK with 302 contacts and 170 counties ... and W4YGO with 289 contacts and 172 counties.





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2011 SE Mini

Location: Dates: Directions:	Quality Inn & Suites; Mount Pleasant, SC October 10-12, 2011 (Monday through Wednesday Follow I-26 East until it ends and take exit 220. Follow signs to Mt. Pleasant/Hwy 17 North. Cross Cooper River Bridge and take Coleman Blvd./Hwy 703 exit. On Coleman Blvd/Hwy 703 turn right at first traffic light. Hotel is on the right.
Room Rate:	More details will be posted at http://semini.superhosts.net/ \$99.99 per night plus tax. Call the hotel directly for reservations and mention "amateur radio". The phone number is 800-704- 4480. The rate is valid only through September 10 th - Make your
Hotel Notes:	reservations early! There is a 2 night minimum stay, and a one night deposit is required. Cancellations must be done 2 weeks in advance, and all but \$25 of your deposit will be refunded. Cancellations within 2
Parking: Activities:	weeks will be charged for 2 nights. Ample FREE parking, with no overhangs to eat antennas! The only group activity is dinner at The Fat Hen. Area attractions include Historic Charleston tours, shopping, dining, golfing,
Dinner: Registration Website:	plantations, Patriot's Point, The Hunley & Fort Sumter. Buffet Style Dinner- \$25/person. \$15 for first person, \$5 each additional person. More information, including online registration is available at:
	http://semini.superhosts.net/

Send registration and fees to:

John M. Hoyt - W5UGD

118 Halifax Rd

Easley, SC 29642

Email: amicon@amicon.net for additional information

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2011 SE Mini Registration

Callsign: _____

Name	(to	be	put	on	bad	lge)):
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Address:

USA-CA#: _____

Additional Names/Calls/USA-CA Numbers:

Total of above 3 items

On Tuesday, there will be a group going to The Fat Hen for dinner. This is an "Order from the menu, pay your own bill" event. How many seats should we reserve for you?

Birthdays

Roadrunner -				
Birthdays				
Call	Birthday Date			
K4CQW	Jul - 01			
KB8TIN	Jul - 01			
W7AXY	Jul - 01			
AL7GY	Jul - 02			
NC4J	Jul - 03			
КС7ҮЕ	Jul - 03			
KA6BTU	Jul - 03			
KFOE	Jul - 03			
KA9QKN	Jul - 04			
W1WLW	Jul - 05			
WOULU	Jul - 05			
WOWYJ	Jul - 05			
K5UH	Jul - 05			
NN5B	Jul - 06			
WB5LFO	Jul - 06			
KE5WL	Jul - 06			
KIOHF	Jul - 07			
AA9ZZ	Jul - 07			
VA3RJ	Jul - 07			
W5FHL	Jul - 07			
K8EMS	Jul - 07			
N4ANV	Jul - 08			
KG7GV	Jul - 08			
ΚΚΟ Λ	Jul - 08			
KU4QG	Jul - 08			
N4GQQ	Jul - 10			
KE5RH	Jul - 10			
N8GEQ	Jul - 11			
WA7AIM	Jul - 11			
AA6JR	Jul - 11			
WD8AYN	Jul - 12			
AA4GL	Jul - 12			
W8YL	Jul - 12			
WA4WIN	Jul - 13			
K9FA	Jul - 13			

Roadrunner -			
Birth	days		
Call	Birthday		
	Date		
1	Jul - 13		
N5SGC	Jul - 13		
WFOB	Jul - 13		
KB4ET	Jul - 13		
KE6LF	Jul - 14		
W0GYR	Jul - 14		
AE5Q	Jul - 14		
N3FC	Jul - 14		
WA1JYO	Jul - 14		
WA1KPJ	Jul - 14		
W5OBT	Jul - 14		
KC3AD	Jul - 14		
WA4WQG	Jul - 14		
K8ZXY	Jul - 15		
N4XE	Jul - 15		
KD1TH	Jul - 15		
K5TT	Jul - 15		
W2ARP	Jul - 16		
KA1NX	Jul - 16		
W4DRR	Jul - 16		
KOUB	Jul - 16		
AA9CW	Jul - 17		
K6PJ	Jul - 17		
KP4CZ	Jul - 17		
KT1M	Jul - 17		
KC0ZU	Jul - 18		
KE6US	Jul - 18		
KI4W	Jul - 18		
KOSDA	Jul - 18		
K5XY	Jul - 18		
WE7G	Jul - 19		
K8MM	Jul - 19		
W8YRB	Jul - 20		
K5VYT	Jul - 20		
КѠЗН	Jul - 20		

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Roadrunner - Birthdays			
Birthday Date			
Jul - 21			
Jul - 22			
Jul - 22			
Jul - 22			
Jul - 23			
Jul - 23			
Jul - 24			
Jul - 25			
Jul - 25			
Jul - 26			
Jul - 27			
501 27			

KF8UN

Jul - 28

Roadrunner - Birthdays			
Call	Birthday Date		
N4AKP	Jul - 28		
WA4LZI	Jul - 28		
NOEHS	Jul - 29		
N4AAT	Jul - 29		
W4YDY	Jul - 29		
KONII	Jul - 29		
W6XLR	Jul - 30		
WN8QII	Jul - 30		
K9GTQ	Jul - 30		
KU9G	Jul - 30		
KD4DJ	Jul - 30		
KW5USA	Jul - 30		
WD40IN	Jul - 30		
КҮ9Ү	Jul - 30		
КА9ЈАС	Jul - 31		
W0FLZ	Jul - 31		
W6XJN	Jul - 31		



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Awards

Awards Issued For June				
Call				
AA9JJ	6/3/2011	Ran All USA	# 12	
N9QPQ	6/3/2011	Ran All USA	# 13	
AA8R	6/18/2011	Master's Gold	# 48	
WB2ABD	6/15/2011		# 26	
KM9X	6/5/2011	Master Platinum	# 15	
N9QS	6/17/2011	USA Call Sign Combo 1x3	# 8	
K9JF	5/31/2011	USA-CA 1 st Time	#1216	
AAOLV	6/6/2011	USA-CA 1 st Time	#1217	
N6PDB	6/19/2011	Worked all Counties - 2nd Time	# 405	
N3HOO		Worked all Counties - 2nd Time		
N8KIE	6/4/2011	Worked all Counties - 4th Time	# 152	



Roadrunner Issued Per Month					
Call		Award			
K8ZZ	6/20/2011	Last County Count 300	# 60		
W6TMD	6/20/2011	Last County Count 500	# 33		
N8KIE	6/16/2011	Last County Count 675	# 17		
KB6UF	6/16/2011	Last County Count 875	#7		
WA4UNS	6/16/2011	Last County Count 175	# 125		
VA3XOV	6/16/2011	Last County Count 25	# 494		
K4SL	6/16/2011	Last County Count 175	# 124		
AA9JJ	6/16/2011	Last County Count 825	#9		

Election Results

MARAC Board of Directors

There were no nominations for the Great Lakes Director or North Central Director positions (both 3 year terms).

Barry Mitchell ---- N0KV has been elected to a 1 year term (expiring July 2012) as the South Central Director.

Congratulations and thank you Barry for offering your time and services to MARAC.

2011 Awards

SSB & CW County Hunter of the Year, SSB & CW Best Net Control of the Year, SSB & CW Best Mobile of the Year and the Best Team Awards will be announced at the banquet on Saturday July 9th at the MARAC National Convention.

Kent Reinke – KL1V

MARAC Election Coordinator

PO BOX 215

Valdez, AK 99686-0215



	ROADRUNNER	Page					
Treasurer's Report May 31, 2011							
Income:							
Money Market Interest	\$2.32						
Awards Manager Income	\$400.00						
Membership Income	\$419.29		1 Li				
Logger distribution	\$85.00		A said tonay				
		<u>\$906.61</u>					
Expenses:							
Awards Manager Expenses	\$164.06						
		<u>\$164.06</u>					
Account Balances			\$19,731.80				
Checking Account		\$6,096.19					
Money Market Account		\$13,635.61					
-			\$19,731.80				
Note							
The following monies are not includ							
Awards Chairman's Funds	\$1,500.00						

Awards Manager's Report June 30, 2011

Funds Balance May 31, 2011	\$ 952.00		\$1,500.00
Income	\$ 932.00	\$ 952.00	
Expenses:		<u>+</u>	
Office supplies	\$ 00.00		
Plaque Suppliers	\$ 129.00		
Postage	\$ 00.00		
		<u>\$ 129.00</u>	
Sent to Treasurer			\$952.00
Reimbursement received from Treasurer			\$ 129.00

Funds Balance April 30, 2011

\$1500.00



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July Calendar..

l June			~ July 2011 ~			August ►
Sun ONLY	Mon	Tue	Wed	Thu	Fri	Sat
ONLY START DATE SHOWN					1	2 PSK31 SPRINT
3	4 10-10 QP MI CW QRP QP	5	6 MARAC NATIONAL	7	8	9 IARU HF
10 STRAIGHT KEY SPRINT	11	12	13	14	15	16 NA RTTY QP
17	18	19	20	21	22	23
24	25	26	27	28	29	30 MARAC COUNTIES QP
31	Notes: CLIC	K THE EVEN	т то до то	THAT WEB S	ITE	



MARAC QP

2011 U. S. Counties Qso Party

1200Z July 30, 2011 to 0600Z July 31, 2011

1200Z July 31, 2011 to 2359Z July 31, 2011

U.S. Counties QSO Party Rules Sponsored by Mobile Amateur Radio Awards Club

Objective: To establish radio contact with as many U.S. Counties as possible

Contest Period: Annually held during the last full weekend in July. Contest runs in two periods, from 1200Z Saturday morning to 0600Z Sunday morning, and begins again at 1200Z and ends at 2359Z Sunday.

Contest Exchange:

USA stations send RS(T), State and County name. Abbreviations are acceptable in CW mode. A list of suggested abbreviations can be found at the following URL's: Credit to Larry, WOQE for formatting, and sharing for use

http://www.bnk.com/w0qe/CountyAbbrev-V3-4col.pdf http://www.bnk.com/w0qe/CountyAbbrev-V3-4col.doc

All other stations send RS(T) and "DX".

Categories:

Single Operator- One individual performs all radio operating, and logging functions.

A. CW only-Only qso's made using CW (morse code) qualify for contest credit. If qso's are made using another mode, one may submit those qso's as a checklog without changing categories.

B. Phone only-Only qso's made using voice modes qualify for contest credit. If qso's are made using another mode, they may be submitted as a checklog without changing categories

C. Mixed mode-Qso's made using voice and CW qualify for contest scoring.

Multi Operator- More than one individual performs any or all radio operating, or logging functions. Only one transmitted signal on the air at any one time.

- A. CW only
- B. Phone only
- C. Mixed mode

Mobile- A station which is either in motion, or capable of being in motion. This includes transmitter, receiver, power source, antenna(s), and logging equipment. Mobile entrants shall be Single Operator only. Drivers O.K. See Miscellaneous, Item C for details

- A. CW only
- B. Phone only
- C. Mixed mode
- D. Multi Op Mobile (Must use one callsign for duration of contest)

Mixed Category-A single operator may choose to operate the contest both from one fixed or portable location, as well as a mobile. To qualify for this category, a minimum of 100 qso's must be made from the fixed or portable location, as well as a minimum of five additional counties must be activated as a

ROADRUNNER

mobile station. The county operated in as a fixed or portable may not be run as a mobile as well. See definition of mobile in the mobile category description.

A. CW only

- B. Phone only
- C. Mixed mode

Outside U.S.

A. CW only

B. Phone only

C. Mixed mode

Bands: 160, 80, 40, 20, 15, 10, 6, and 2m are used in this contest. Phone qso's only in the Phone sub bands, CW qso's only in the CW sub bands. No cross mode, cross band, repeater, or satellite qso's permitted.

Suggested Freq's- CW 50khz up from bottom of band Phone 1850, 3850, 7250, 14270, 21400, 28400, 50135, 146530 Mobile windows: 5 khz down from suggested freq. Please, if you are a fixed station, keep these freqs clear for mobile operations.

Scoring:

U.S. Stations-

Fixed- 1 point for U.S. Fixed, 2 Points for outside U.S., and 15 points for U.S. Mobile. While participation is encouraged for those outside of the U.S., please note, since the objective of the contest is to work as many U.S. counties as possible during the contest weekend, it is not in the spirit of the contest for a U.S. Fixed stations to "run dx".

Mobile- 1 point for U.S. Fixed, 5 points for Outside U.S., and 15 points for qso with another U.S. Mobile

Dx stations- 1 point for U.S. fixed stations, and 15 points for each qso with a U.S. mobile.

Mixed Category-Add the qso point total as a fixed station to the qso point total as a mobile station, and multiply by the sum of multipliers worked as a fixed and mobile. Example: Fixed score: 1000 qso points and 250 multipliers. Mobile score 200 qso points and 50 multipliers. Mixed score is 1200 qso points X 300 multipliers for a total score of 360,000 contest points.

Multipliers:

U. S. Counties worked, per mode. A CW only, or Phone only station has a maximum of 3077 mults. A mixed mode station, has a maximum of 6154 mults.

Miscellaneous:

A. There is no digital communications in this contest. Acceptable modes are CW and Phone only.

B. Self spotting as a fixed station is not allowed. Self spotting as a mobile is permitted.

C. Drivers for mobile stations are permitted, provided they do not assist with in any way with the contest on air operations. This includes, but is not limited to operating, logging, spotting, and antenna changes.

D. County Line operations: As defined by MARAC, a stationary mobile may operate from one county line, and contacts with that mobile shall count as two qso's, and 2 counties worked. Some part of the vehicle must be in both counties for the duration of the qso. The mobile may also log two qso's for

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contest scoring.

E. Independent city-A station which operates from any of the independent cities, as defined in the MARAC awards rules, must choose, and use only one county for use in the contest exchange, for the duration of the contest.

F. This contest, unless otherwise stated above, shall follow the ARRL General Rules for Contests.

Awards:

Plaques to be awarded to top scoring entrant in each Category, .

Certificates will be awarded to category runner up, as well as top scores from each U.S. State, Canadian Province, and DXCC Entity.

Participation certificates will be awarded to those who submit logs containing 100 qso's or more. Any one entrant may win only one contest award in any given year.

Additional awards may be available at the discretion of the Contest coordinator, or the MARAC Board of Directors.

Plaque sponsorship-If you are interested in sponsoring one or more awards, including one which is not listed, please feel free to contact the contest coordinator.

Log submission:

Please note that the contest chairman will not score your log. Un-scored logs will be considered check logs only. Please use this <u>summary sheet</u> if your logging software doesn't create one, or if you will be submitting paper logs.

Please submit your logs by August 31, 2011 to qualitfy for awards. Logs may be sent via email or USPS.

Email:

ka3qlf(at)comcast.net

USPS:

KA3QLF-Scott Petty 2063 N. Turnpike Rd. Dalton, PA 18414

Please watch the contest section of the MARAC website for updated information, including Plaque sponsors, contest records, and planned trips for the contest. There are still plenty of plaque sponsorships available. Please contact the contest Coordinator (KA3QLF) for details. Best 73, and hope to hear you dirung the contest.

Scott, KA3QLF

MARAC contest coordinator



The County Line Roadrunner MARAC Secretary 2690 Bohicket Rd Johns Island, SC 29455

"A Road Runner Is A Very Fast Bird"

Monthly Deadline for Articles is the 25th!

Board of Directors

President: Joyce Boothe, WB9NUL, 21175 FM2556, Santa Rosa, TX 78593 1-956-636-9161, joycenul@aol.com Vice-President: Leo Bingham, WY7LL, 28 Buck Dr, Pine Haven, WY 82721, 307-686-8230, wy7ll.lightningleo@gmail.com Secretary: Jim Grandinetti, KZ2P, 2690 Bohicket Rd, Johns Island, SC 29455, 843-323-8385, k2jg@comcast.net Treasurer: Terry Dummler, WQ7A, PO Box 500, Yelm, WA 98597, 253-370-3377, wq7a@comcast.net Great Lakes Director: Randy Hatt, AA8R, 7878 W County Line Rd, Howard City, MI 49329, 517-812-9468, aa8r@aol.com North Central Director: Cliff Bird, AC0B, 6140 Hwy 194, Saginaw, MN 55779, 218-343-7473, ac0b@arrl.net Northeast Director: Carol-Ann Reitman, AB2LS, 100 Wood-

bury Rd, Highland Mills, NY 10930, 845-928-6238, ab2ls@ optonline.net

South Central Director: Barry Mitchell, N0KV, 12200 Boothill Dr, Parker, CO 80138, 303-842-5635, n0kv@arrl.net

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: Robert T. Devine, KC6AWX, 407 Alameda Del Prado, Novato, CA 94949-6302, 1-415-883-8980, kc6awx@marac.org

Appointees

Historian: Gary Beam, K4EXT, 195 Nanny Goat Hill Rd, Elizabethton, TN 37643, ch2@k4ext.com Newsletter Editor: Dave Hyatt, KU4YM, 159 Schooner Bend Ave, Summerville, SC 29483, 843-442-8666, dhhyatt@ieee.org

Sunshine Coordinator: Pat Reiner, KM6QF, 16931 Aldon Rd, Encino, CA, 91436, 213-999-0100, lovedoxies@aol. com

Webmaster: Mike Fatchett, W0MU, PO Box 3500, Parker, CO 80134, 303-790,4611, w0mu@w0mu.com Custodian, Club Call, K9DCJ: Joyce Boothe, WB9NUL, 21175 FM2556, Santa Rosa, TX 78593 1-956-636-9161 joycenul@aol.com

Election Coordinator: Kent Reinke, KL1V, PO Box 215, Valdez, AK 99686, 901-835-4942, kr@gci.net

MARAC General Counsel: David Splitt, KE3VV, 6111 Utah Avenue NW Washington, D.C. 20015-2461, 1-202-362-3355, ke3vv@marac.org

Computer Data Manager: Gene A Olig Sr, KD9ZP, W 4325 4th St Rd, Fond du Lac, WI 54937, 920-923-0130, kd9zp@att.net

Dues with an Electronic copy of the Newsletter copy are \$14.00 per year, check or money order; \$14.75 via PayPal.