



# Solid Copy

The International CWops Newsletter

December

2017

Issue No. 95

## Results 2017 CW Open



Line scores and awards listings for the 2017 CW Open: see [page 9](#)

**CWops “CWT” Every Wednesday**  
**Regular Tests: Full Speed**  
 Start: 13Z, 19Z, 03Z (+1), 1-hour each session  
 Exchange: name/number (members)  
                   name/SPC (non-members)  
 Special Slow Speed sessions for CWA graduates will be November 8-9, 2017

**Avoid DX pileups!**

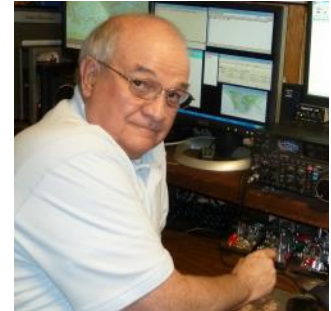
**CWops “neighborhood”:** Look for CWops on 1.818, 3.528, 7.028, 10.118, 14.028, 18.078, 21.028, 24.908, 28.028, 50.098 “and up”

**13+ wpm practice:** Tuesday, Friday, Sunday 6-8 pm “local time” 7.035-7.045

**CWops Officers and Directors**  
 President: Mac McDonald [NN4K](#)  
 Vice President: Peter Butler [W1UU](#)  
 Secretary: Jim Talens [N3JT](#)  
 Treasurer: Craig Thompson [K9CT](#)  
 Director: Stew Rolfe [GW0ETF](#)  
 Director: Vidi La Grange [ZS1EL](#)  
 Director: Nodir Tursoon-Zade [EY8MM](#)  
 Webmaster: Dan Romanchik [KB6NU](#)  
 Editor/Publisher: Tim Gennett [K9WX](#)

## President’s Message

November weather was reasonably mild and allowed for some final tweaking of the antenna farm before the cold winds begin to blow. The leaves have mostly fallen and the winds will soon release the last ones from their hold on the branches setting the barren scene of winter. While it can be cold outside, the shack will serve as a refuge until Spring. The contest calendar and local ham radio club activities will provide enough to keep us engaged with our favorite hobby, not to mention other events like Christmas, Hanukkah and celebration of the New Year.



CWops was represented at the Stone Mountain Georgia Hamfest on November 4th and 5th. The North Georgia QRP Club sponsored our table/

(Continued on page 2)

## Table of Contents

<a href="#">President’s Message</a> .....	1
<a href="#">From the Editor</a> .....	3
<a href="#">News &amp; Notes</a> .....	5
<a href="#">How We Were – VE3GFN</a> .....	6
<a href="#">Other News</a> .....	8
<a href="#">Results: 2017 CW Open</a> .....	9
<a href="#">CWops Tests</a> .....	17
<a href="#">CW Academy</a> .....	18
<a href="#">Results: CW Academy Fall 2017</a> .....	19
<a href="#">New Members</a> .....	21
<a href="#">CWops Members Awards</a> .....	22
<a href="#">QTX Report</a> .....	24
<a href="#">Operating Events</a> .....	27
<a href="#">My Story: New member bio’s</a> .....	29

*(Continued from previous page)*

booth where I set up the Call Sign Copy Competition components. What happened this year was unexpected but a huge opportunity. To explain, the competition was minimal but having a booth there allowed many hams who were interested in learning Morse code to learn about our CW Academy and the CWT's. It was one ham after another who wanted to know about our program. They collected the information flyers from the table and I felt sure they would follow through and visit our website to initiate enrollment in one of the training levels that would be appropriate for them.

The prospects had many reasons for wanting to learn CW. Some are active QRPers who want to also be active in the ARRL Programs like POTA, SOTA and the "in the field" activities. Those who know CW felt like they would get more satisfaction if they could improve their speed. A few wanted to use CW to enhance their operating skills aside from SSB and FM operations. We talked about contesting activities also. Our CW Academy can help them achieve their goals and I hope they have signed up for our training.

What stands out about this to me is my enlarged awareness of the desires of hams to learn Morse Code. Most of the inquirers seemed to be aware of the commercial packages available for learning CW. Some had tried them and had given up in disappointment because of their lack of success. I doubt there is anything wrong with the courses, but we offer a key factor that they do not: Advisors who are experienced and helpful, especially when students get to feeling frustrated and overwhelmed. Having an Advisor to work with like we provide in our CW Academy goes a long way toward helping the student achieve a successful start or upgrade. You can't say enough good about this approach to teaching CW to students. Most are able to learn and will put in the time to practice and succeed. I have personally experienced the success of students and there isn't much that is comparable to observing a student's successful completion of a Level I training.

CW is not likely to be the preferred mode of operating in ham radio by all hams, but for those who try it and like it, they will gain a satisfaction unknown to many. I am wondering if we can reach more hams who are interested in learning CW but have never heard of CWops? One potential way is for our members who attend some of the smaller hamfests to pass out flyers about CW Academy. They could also be placed on radio clubs tables in booths. If you would like to be someone who takes the CW Academy message to the ground and make flyers available, please contact me via email and I'll send you the form that can be printed (small quantity) and put on those tables. I'm looking for ways to get the word out quicker than one of our Ambassadors can manage to get to. Just trying to leverage a means of distribution. Hope you'll consider trying it.

***President's Message . . .***  
"If you would like to be someone who takes the CW Academy message to the ground and make flyers available, please contact me via email"

Wishing all of you a happy and enjoyable holiday season. See you on Wednesdays.

73

**Mac**, NN4K, President



## From the [Editor](#)

### Inherently Global

I had the opportunity to visit seven East European countries in November: Romania, Bulgaria, Serbia, Croatia, Hungary, Slovakia and Poland. There was no ham radio activity slated for the trip and none experienced. The trip was about history, culture, geography, meeting new people and, like any good vacation, food and beverage.

These are countries that, historically, have often been in someone's way. The Romans, Ottomans, Habsburgs, Third Reich and others wanted these lands, and thus these lands have had more than their share of war and conflict brought to their borders. Conquest was the objective.

In more modern times some of the people living there fought each other over their borders and who should live where. Most recently these countries, like many others around the globe, have had to decide how to deal with refugees who want to cross the borders; we were in Poland just days after their November 11 demonstrations. And many countries have an ongoing debate on how best to define their sovereignty and identity: Brexit and "Build the Wall" for example. But today's debate is no longer about conquest, it's about isolation. At the risk of oversimplification, some folks say "We want to connect with those people over there" while others say, "We don't want to connect with those people over there, leave us alone."

I was struck by the dichotomy of this debate several times throughout my trip, as our various tour guides talked about the history of these lands, and how ham radio, while non-partisan and non-political, clearly stakes out a preference in favor of connections with "those people over there." Whether you are a DX'er, contester or rag chewer, you want to make as many of these international connections as possible. Sometimes desperately so and with a big investment of time and money: witness how many of us spend large sums to equip our stations so that we can sit for hours, trying to log a single contact with some rare entity. We regularly get together at large gatherings that have significant international attendance: Dayton, Friedrichshafen, Tokyo and Visalia. We organize multi-national teams to visit and activate exotic DX locations. And we all know hams who have developed close friendships with hams in other countries, visiting back and forth across borders, enjoying relationships first formed through on-air contacts.

In addition to CWops I'm a member of my national ham radio organization, a couple of regional ham radio organizations, and a couple of local ham radio organizations. But CWops is unique among my memberships in that it is explicitly and intentionally international. Consider:

- Over 25% of CWops members live outside of the USA despite CWops organizational roots being in North America and the USA having the world's largest population of hams
- Three of the seven CWops officers live outside of North America
- CWops has members in 75 different countries



*With the XYL on the Fisherman's Bastion, Budapest*

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- Students for the most recent semester of CW Academy hail from, Mexico, The Netherlands, Ireland, England, South Africa, Turkey, Italy, Cyprus, Germany, France, Poland, Spain, Fiji, Australia, and New Zealand in addition to the US.
- Instructors for the most recent semester of CW Academy hail from Canada, the UK (England, and Scotland), Israel, The Netherlands, Sweden, and Australia in addition to the US.

At a time when there is so much global uncertainty, suspicion and unrest associated with borders and culture, it feels good to be part of a hobby which, for over 100 years, has celebrated these border and cultural differences and reached across the lines to make personal connections. And it feels good to be part of an organization like CWops which has successfully brought together so many people from so many places.

CWops and ham radio: inherently global.

73

*Tim*, K9WX, Editor

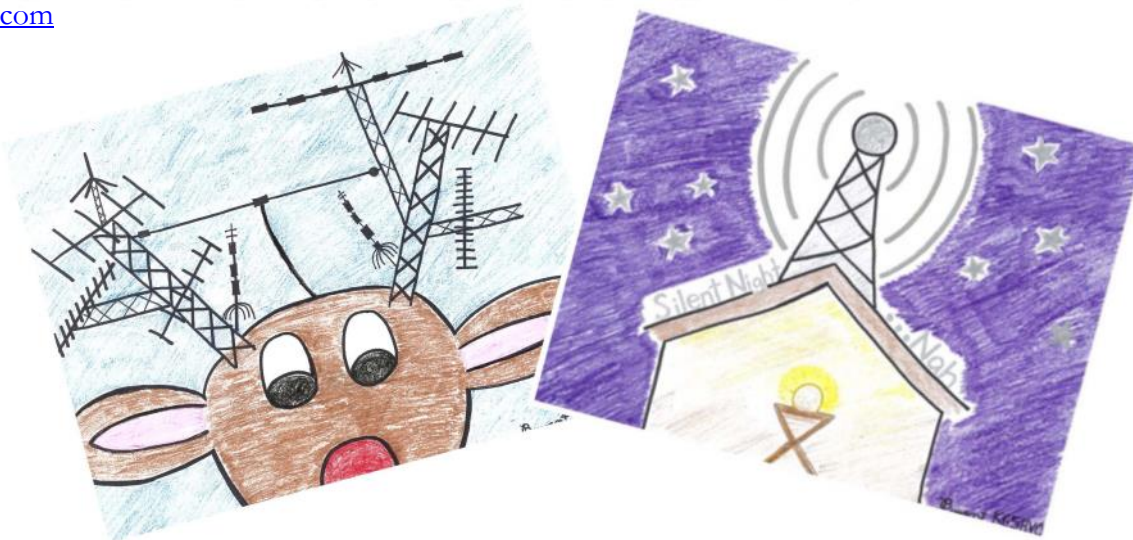
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## Help a Member Get to WRTC2018

CWops member Bryant KG5HVO is 13 years old. Next summer he will be participating in the World Radiosport Team Championship (WRTC 2018) in Wittenberg, Germany representing one of the youth teams. He will be the youngest ham in the competition.

He has created and is selling ham holiday postcards to help cover some of his cost of attendance. They are undated, 4" x 5.5", printed on heavy cardstock and are blank on the back side for either a holiday QSL or a personal greeting. The cost is US\$20 for one set of 20 cards or US\$35 for two sets. There is a flat fee shipping rate of US\$3. Due to complications associated with international orders, he would like to limit orders for shipping to USA addresses. All proceeds from the sale of these postcards will go toward covering his equipment and travel costs for WRTC 2018. Cash, Check, and PayPal accepted. Orders will ship the next business day. Contact him at: [tlrascoll@aol.com](mailto:tlrascoll@aol.com)



# News & Notes

## [Jerry Weisskohl, AC4BT](#)

**We sadly report that Bob G4HZV's XYL Adrienne, passed away November 21 after a long battle with cancer. CWops sends its condolences to Bob and his family.**

**John, K3GHH:** Motorcycling home to Baltimore from a Thanksgiving week in New Orleans, I crashed at 70 mph on November 26 just south of Bristol TN.

Protective gear did wonderfully and my only injuries were a broken right ankle, right collarbone, and bones in my left hand. After Monday's surgery on the ankle, I was transported by ambulance to a rehab facility only two miles from my home. The nature of the injuries made my desperately desired return to home impossible.

My son, who recently became KG5POC, drove up, and I'm so grateful for his care in Tennessee and Baltimore. I'm doing physical therapy but am told it could be eight weeks before the ankle can bear full weight. My daughter and her Alaska friends, all avid riders, indulged in a little wry humor after learning I was OK, declaring I was "now a member of the club".

**Rick, N6XI:** I put in a rousing 12 hours in the 48-hour CQWW CW contest.

Usually, when I report casual contest activity on the appropriate channels, I excuse my low score by saying I was "just playing around." In fact, I exchanged that phrase this time, too, with a few email correspondents during my many, long breaks.

But some time Saturday evening, completing a few more post-lightning repairs and other chores around the house, I realized that what I was really doing was following W6SX Hank's advice to 'have fun'. When else can you find the bands packed wall-to-wall with activity? When else can you make DXCC in a matter of hours and pick up a few ATNOs? What better way to figure out how your station improvements and repairs are working, how well your station plays, how often you win "jump balls," how long it takes to break various kinds of pileups, how your operating skills are holding up and, hopefully, improving?

In the current phase of the sunspot cycle, how often can you run Euros from the US West Coast, or JAs and BYs on 40? This casual weekend of ham radio, which doesn't even deserve to be called an "effort," was really a pleasure. I hope yours was, too!

**Giu, IT9VDQ:** RAEM contest: how to hurt yourself! Already the date of the contest says all: December 24, 00z-12:59z! Let's start:

Reports: Serial No. + latitude (degrees only) + longitude, degrees only - (N=North, S=South, W=West, O=East) e.g. 57N 85O. Doesn't that seem simple?

Then consider that the Russians usually go at 5000 WPM!

It is not enough? Then I tell you that they often use abbreviated numbers and/or letters.

Yet? Also note that there is no standard for LAT/LONG, say xxNyyE, but LAT/LONG can also be one to three digits (xxxNxxE or xNxxO). Some examples: 41N77W, 59N102O, 38N9W, 51N003O, 43N141O, 50N137O, 53N104O, 53N50O, 28N16W and so on

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QSO with same station: Once per band

QSO Points: 50 points + 1 point for every degree difference in geo location, both latitude and longitude

QSO with Polar station: 100 points additional

QSO with RAEM Memorial Station: 300 points additional

Many categories - The prizes are beautiful plaques for the top three of each category.

If for the first hour of the contest you wish to feel the sensation of being "a very CW novice", RAEM is the contest for you! But for all these difficulties, for me is "the most beautiful contest in the world"! [www.raem.ru](http://www.raem.ru)

73,

*Jerry*, AC4BT, News & Notes

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## How We Were

### [Hank Garretson, W6SX](#)

VE3GFN, Mike Goldstein, CWops #1119

Here is Mike's story in his own words.

"VE3GFN, first licensed as VE1ADH in Halifax, Nova Scotia, has been on the air since 1956.

"Contesting on CW has been an interest since my early days in ham radio, and has been regenerated with the introduction of computer logging software.

"I entered my first contest in 1956, shortly after I was licensed as VE1ADH. In 1958, VE1ADH won the old VE/W contest for the Maritimes section, and acquired his first contest certificate. This, with a Hallicrafters SX99 receiver, a Heath DX35 transmitter, wire antennas, and manual logging techniques!



"While working for the University of Toronto for 23 years, I published a number of my amateur radio designs in Ham Radio and CQ Magazines, and multiple editions of W6SAI's Radio Handbook (Editors and

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Engineers). The 19th Edition of the Radio Handbook, published in 1972, contains articles on three solid-state receivers, and all three are my designs. One of these, an all-band solid-state receiver with digital frequency display, now resides in the Hammond Radio Museum in Guelph, Ontario, their only homebrew receiver exhibit.

"Here is a shot of me at my present main operating position, showing the Elecraft K3, and the new P3 panadaptor I've recently installed. As well, I've added a new wireless keyboard, and wireless mouse, and use the computer for daily logging now, as well as contest logging.



"The Datong audio filter in front of me has been a fixture in all my shack setups for three decades now, and is a superb accessory for CW ops.

"I presently use five Vibroplex bug keys, and CW is certainly my favorite mode of operation. In 1982, I acquired a CW Proficiency certificate from ARRL, that says I can put 35 wpm on paper, and I had to teach myself to touchtype first, to do that. Learning how to take CW on a "mill" is another story, but I had to go back to 12 wpm, and start from there! These days, I'm probably good for taking 45 wpm in my head, if it's a good fist.

"Incidentally I use all my bugs backwards, pushing my "dahs" and pulling my "dits". This goes back to my first years of using CW, at age 15 or so, when I bought my first Vibroplex bug, a Champion model, for about \$17 new. I recently bought a second-hand duplicate of the Champion, in fine condition, for \$100! My original Champion now resides in the shack of my good friend Walter, HB9AUK, outside Zurich. Walt keeps it shiny and ready to go, awaiting my next trip to Switzerland.

"At any rate, I'm a "lefty", and at age 15, did not know there were left - handed bugs. I used mine in this fashion for a number of years, before reading a humorous article in a radio magazine (QST, perhaps?), that said "so I thumbed a fast five..."

"Thumbed a fast five? But I use my thumb for sending dahs! How can that be? Hmmm, have I been using this bug backwards all these years? So it would seem, but it was far too late to switch, at that point, so I continue to do so. What's really curious is that, as VE1ADH, I went out on Field Day for a number of years with the Halifax Amateur Radio Club, and none of those CW hotshots, including Wes, VE1EK, ever noticed that I was using a bug backwards!

"A few years later now, I've made 5BDXCC, and the DXCC Honor Roll, all with paper QSL cards and 100 watts! I still have a passion for contesting, and of course, CW. CU in the contest!"

Thanks for the great story Mike.

I really need How We Were pictures and stories. Please. [w6sx@arrl.net](mailto:w6sx@arrl.net)

73,

**Hank**, W6SX, How We Were

# Other CWops News

## Elections

CWops bylaws require elections in November. Don N1DG led the nominating committee that called for nominations (via the CWops Listserv) for the two expiring terms of Vice President and one Director. W1UU, Pete, and Nodir, EY8MM, both agreed to serve again. No other nominations were received following Don's notice. Therefore, W1UU and EY8MM are re-elected to serve their respective terms. Congratulations and thank you to both Pete and Nodir for their dedication to CWops.

## Dues and Membership Renewal

For those whose CWops membership expires at the end of 2017, please remember to renew. Dues are US\$12 for 2018. For US\$50 you can renew for five years (through 2022); for US\$100 you can become a lifetime member and you never need to remember to renew again! Not sure when your membership expires? Go to [www.cwops.org](http://www.cwops.org) and click on ROSTER on the left. To pay dues, go to [www.cwops.org](http://www.cwops.org) and click on PAY DUES.

## Youth CW Academy

We have at least one group of students ready for Jan/Feb YCWA. But, there are still openings. The list closes 15 December. For now, it is confined to NA/Canada and a maximum enrollment of 25. If you know any licensed kids, 11-19 years of age, who would like to become CW competent, have them signup before 15 December. The signup info should include:

- Name
- Call
- License class
- Email
- Telephone
- Time Zone

The information should be emailed to: [k6rb58@gmail.com](mailto:k6rb58@gmail.com) and the header should read Youth CWA.

## Hotel Reservations Open for North American CW Weekend

Hotel reservations can now be made for the annual North American CW Weekend, to be staged from the Fairview Park Marriott in Falls Church, VA. The 2018 event is scheduled for the weekend of June 1-3. More details about the event will be published but are similar to previous years, with a fun pizza party at a local parlor on Friday evening, a well-attended dinner at a local restaurant on Saturday evening, a brunch at N3JT's QTH on Saturday morning, and lots of free time in between for chatting and touring the DC area's sites. Contact W4ZYT, Don, for more details or with any questions. We hope to see you there! It really is a great event. To book your room, visit the [hotel web site](#) and follow their instructions. There is a special group rate of US\$109 per night.





# The CW Open in 2017

[Bruce Meier – N1LN](#)

The seventh consecutive CWops organized and managed CW Open contest is now in the record books. The format of this contest is quite different than other contests as there are three separately scored sessions each with its own awards. Additionally, being a global event, the participants from the three IARU regions compete for combined session awards within their respective region. The current position in the sunspot cycle lending to less than favorable propagation numbers could have made the three sessions more challenging but the QSO and multiplier counts and overall scores tell a different story.

The CW Open is always held on the first weekend of September. The kickoff session, session 1, begins at 0000Z on the first Saturday of September. It continues right up to 0400Z. Session 2 begins at 1200Z and ends at 1600Z. And the final session begins at 2000Z and finishes at 0000Z. At the beginning of each session, everyone starts with a QSO and multiplier count of zero for that session. So, theoretically, over the course of the three sessions, you could work the same station 18 times! However, multipliers are given for working a callsign once during a session. So, if you worked that same station on six bands in a given session, you would receive 6 points but only 1 multiplier.

Participation was slightly down this year over the past five year running average for each session. One might point at the propagation, but this was the first year any single session score topped 100,000 points so that might not be the reason. Lets start with a BIG ATTA PERSON for Region 1. They really jumped in and had an increased participation in all sessions with an overall 50% increase. As in prior years, participation has been primarily in Region 2. That said, Region 2 had an overall 15% decrease in participants. Region 3, however, has been essentially and conspicuously absent. One reason could be the All Asian DX contest is also the first weekend in September. So, due to the low participation no Region 3 trophies or plaques will be awarded.

We would like to once again recognize and thank ICOM America for providing the beautiful trophies and plaques to the CW Open winners. CWops really appreciates ICOM's continuing support of our premier operating event. Please be sure to check out ICOM at: <http://www.icomamerica.com/en/amateur/>

So, let's take a look at the 2017 results and begin planning and strategizing for the upcoming 2018 CW Open starting on September 1, 2018.

## Session 1 – 0000Z to 0400Z

Session 1 results are based on 164 logs received. Logs were submitted by stations in all three ITU regions.

CALL	NAME	QSOS	MULTS	SCORE	POWER	CALL	NAME	QSOS	MULTS	SCORE	POWER
AA3B	BUD	451	235	105985	HIGH	K4BAI	JOHN	305	181	55205	HIGH
K3WW	CHAS	414	226	93564	HIGH	N8BJQ	STEVE	321	171	54891	HIGH
K0RF	CHUCK	389	210	81690	HIGH	VA2WA	VIC	301	171	51471	HIGH
N5ZO	MARKO	380	213	80940	HIGH	W6SX	HANK	293	174	50982	HIGH
N3QE	TIM	360	215	77400	HIGH	K2SX	DENNIS	290	170	49300	HIGH
W9RE	MIKE	362	212	76744	high	W8FN	RANDY	266	176	46816	HIGH
N1LN	BRUCE	360	212	76320	HIGH	K2LE	ANDY	273	171	46683	HIGH
NP2X	ED	341	214	72974	HIGH	AB0S	TIM	273	163	44499	HIGH
WJ9B	WILL	346	203	70238	HIGH	K3UL	BOB	264	157	41448	HIGH
K3WJV	BILL	339	192	65088	HIGH	KC9EE	GARY	253	162	40986	HIGH
AC4CA	JOHN	312	193	60216	HIGH	N4BP	BOB	230	166	38180	HIGH
K3MD	JOHN	315	180	56700	HIGH	K8AJS	JOHN	246	150	36900	HIGH
K6RB	ROB	313	181	56653	HIGH	K1IMI	BERT	223	165	36795	HIGH
NA8V	GREG	307	182	55874	HIGH	K4GMH	MIKE	208	172	35776	HIGH

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CALL	NAME	QSOS	MULTS	SCORE	POWER	CALL	NAME	QSOS	MULTS	SCORE	POWER
WC7Q	SAM	235	151	35485	HIGH	K2NV	TONY	199	130	25870	LOW
K1EBY	FRANK	217	157	34069	HIGH	NT2A	GENE	193	134	25862	LOW
K3UA	PHIL	204	150	30600	HIGH	KP3W	JOSE	186	137	25482	LOW
AD8J	JOHN	190	149	28310	HIGH	K1DW	DALLAS	154	136	20944	LOW
K4QS	CHUCK	205	137	28085	HIGH	N4EEV	MIKE	170	122	20740	LOW
VE2FK	CLAUDE	191	146	27886	HIGH	N8EA	JOE	174	116	20184	LOW
NN5O	LARRY	193	144	27792	HIGH	N1DC	RICK	159	105	16695	LOW
N3JT	JIM	193	140	27020	HIGH	VE3MA	AL	152	107	16264	LOW
WA4JUK	JOE	186	137	25482	HIGH	VE3GFN	MIKE	145	102	14790	LOW
K4AFE	JOHN	191	129	24639	HIGH	K2QB	JIM	139	105	14595	LOW
KU8E	JEFF	188	125	23500	HIGH	K3IE	HUNTER	138	104	14352	LOW
IT9VDQ	GIU	170	132	22440	HIGH	K5XU	MIKE	135	95	12825	LOW
WB0SND	MIKE	178	126	22428	HIGH	KA5M	MARSH	128	93	11904	LOW
WA3AAN	GRANT	165	131	21615	HIGH	N0EF	JOHN	114	94	10716	LOW
K9MA	SCOTT	176	121	21296	HIGH	WB9HFK	MARK	122	86	10492	LOW
VE3KP	KEN	172	115	19780	HIGH	WA9LEY	E	119	86	10234	LOW
WT2P	CJ	152	124	18848	HIGH	K0VBU	BILL	105	93	9765	LOW
K4IU	FRED	166	110	18260	HIGH	N2UU	BOB	115	84	9660	LOW
K0NM	NIZ	159	114	18126	HIGH	KG3V	TOM	102	82	8364	LOW
N4KS	KEN	128	128	16384	HIGH	AA8TA	JOE	92	87	8004	LOW
NN4K	MAC	150	107	16050	HIGH	KK4R	ROB	100	76	7600	LOW
N5AW	MARV	138	108	14904	HIGH	AJ8B	BILL	103	72	7416	LOW
KE4S	DAVE	144	101	14544	HIGH	W1WBB	BILL	90	82	7380	LOW
KB3Z	MARK	106	86	9116	HIGH	W9EO	ERIC	93	77	7161	LOW
K8BZ	STEVE	96	88	8448	HIGH	K8RGI	BOB	96	70	6720	LOW
N0KQ	BILL	103	80	8240	HIGH	WQ5R	GARY	93	70	6510	LOW
IT9MUO	ALF	95	83	7885	HIGH	K0AV	ALAN	80	80	6400	LOW
CO6RD	REY	87	87	7569	HIGH	W9ILY	JOHN	85	73	6205	LOW
NA6O	GARY	96	75	7200	HIGH	K3SEN	DALE	70	64	4480	LOW
K1RV	PI	82	71	5822	HIGH	K7DR	DAVE	72	56	4032	LOW
4X6GP	VIC	75	73	5475	HIGH	WA8OJR	BRUCE	58	58	3364	LOW
KJ9C	MEL	81	65	5265	HIGH	K5IX	DAVE	62	53	3286	LOW
VO1HP	FRANK	65	65	4225	HIGH	NE4EA	AL	56	49	2744	LOW
VE2AXO	BOB	63	62	3906	HIGH	W2VM	CRAIG	50	50	2500	LOW
K1ESE	JOHN	61	61	3721	HIGH	N9NA	JOHN	50	49	2450	LOW
OK1RR	MARTIN	62	49	3038	HIGH	KN4Y	ED	49	43	2107	LOW
N4AF	AL	55	49	2695	HIGH	VA2SG	PETE	47	44	2068	LOW
DL6KVA	AXEL	59	45	2655	HIGH	W6TN	TRUNG	47	43	2021	LOW
K7OM	TED	54	45	2430	HIGH	WT9Q	VIC	48	42	2016	LOW
WU6X	DEN	48	41	1968	HIGH	W6KY	ART	46	39	1794	LOW
N3GD	LEO	45	42	1890	HIGH	NM5M	ERIC	41	39	1599	LOW
RM2D	MATS	50	31	1550	HIGH	WA5LXS	DENNIS	35	33	1155	LOW
W2RR	LON	39	39	1521	HIGH	SF3A	JAN	32	27	864	LOW
K0TQ	MIKE	41	35	1435	HIGH	N0AC	BILL	27	27	729	LOW
SP4Z	WES	37	37	1369	HIGH	NV9X	JIM	27	25	675	LOW
G4NVR	PHIL	36	36	1296	HIGH	KC1SA	STEVE	26	24	624	LOW
SA0BXV	CLAES	17	16	272	HIGH	UR5MM	RUDY	27	21	567	LOW
SM9A	STEF	12	12	144	HIGH	W1KM	GREG	24	23	552	LOW
SD1A	ERIC	13	11	143	HIGH	OK1HCG	KAREL	23	23	529	LOW
NA2CC	CHARLES	10	10	100	HIGH	RT4W	MIKE	23	21	483	LOW
UA4PAQ	RAS	9	9	81	HIGH	K3YNY	RICK	20	20	400	LOW
K3PP	GLENN	9	9	81	HIGH	RA3XCZ	VLAD	17	14	238	LOW
R2DS	SERG	3	3	9	HIGH	WU4B	CLARK	15	15	225	LOW
RA3NC	001YURI	1	1	1	HIGH	SE4E	LARS	14	12	168	LOW
K7SV	LAR	320	185	59200	LOW	RV3MR	VLAD	11	11	121	LOW
K5KU	GARY	278	172	47816	LOW	MW0BRO	MARTIN	9	9	81	LOW
N9NB	TED	278	170	47260	LOW	G4PGD	RICK	8	8	64	LOW
N5EE	KEN	260	179	46540	LOW	UT8AS	VLAD	7	6	42	LOW
W0UO	JIM	276	161	44436	LOW	N2BZD	PAT	1	1	1	LOW
W1NN	HAL	263	158	41554	LOW	JA3RAZ	RYO	1	1	1	LOW
W3KB	KEITH	266	143	38038	LOW	VE3MGY	BRIAN	158	113	17854	QRP
W7ZRC	ROD	246	153	37638	LOW	W6JTI	FRANK	123	96	11808	QRP
W5TM	ED	239	152	36328	LOW	UA6AK	VAL	41	41	1681	QRP
K9DX	JOHN	217	148	32116	LOW	KE4RG	KEN	38	37	1406	QRP
K2ZR	DICK	213	146	31098	LOW	KA8HDE	CHUCK	24	24	576	QRP
N5JR	JOEL	208	136	28288	LOW	WN4AFP	DAVE	18	18	324	QRP
NW0M	MITCH	217	126	27342	LOW	K8RJW	BOB	3	3	9	QRP
KE8G	JIM	198	135	26730	LOW						
NI0R	ROGER	199	133	26467	LOW						

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**Session 1 Analysis:** In the high power category, Bud, AA3B, came in first with 451 QSOs, 235 multipliers, and a score of 105985. This was the first time a single session score in excess of 100K points was attained. Chas, K3WW, came in second with 414 QSOs, 226 multipliers and a total score of 93564. Larry, K7SV, walked away with the low power category award with his 320 QSOs and 185 multipliers for a score of 59200. We moved north of the US boarder to VE3MGY, Brian, for the QRP first place finish with an outstanding 158 QSOs, 113 multipliers, and a score of 17584. One point to note here is that all first place finishers exceeded the top Session 1 scores for 2016.

## Session 2 – 1200 to 1600Z

Session 2 results are based on 185 logs received. Logs were submitted by stations in all three ITU regions.

CALL	NAME	QSOS	MULTS	SCORE	POWER	CALL	NAME	QSOS	MULTS	SCORE	POWER
N5AW	MARV	402	243	97686	HIGH	CO6RD	REY	71	71	5041	HIGH
AA3B	BUD	376	212	79712	HIGH	K3UA	PHIL	73	66	4818	HIGH
K0RF	CHUCK	357	219	78183	HIGH	SD1A	ERIC	62	47	2914	HIGH
N5ZO	MARKO	363	206	74778	HIGH	K8BZ	STEVE	57	50	2850	HIGH
K4BAI	JOHN	338	202	68276	HIGH	K7OM	TED	57	46	2622	HIGH
N1LN	BRUCE	334	201	67134	HIGH	WT2P	CJ	50	47	2350	HIGH
WJ9B	WILL	289	198	57222	HIGH	AE1T	PETER	48	46	2208	HIGH
NP2X	ED	266	208	55328	HIGH	R6AF	VIC	45	45	2025	HIGH
NA8V	GREG	295	177	52215	HIGH	K3PP	GLENN	49	40	1960	HIGH
N8BJQ	STEVE	296	169	50024	HIGH	WH7W	MARK	43	41	1763	HIGH
K3WJV	BILL	276	174	48024	HIGH	G4NVR	PHIL	43	36	1548	HIGH
N4PN	PAUL	269	173	46537	HIGH	P3X	SERG	34	34	1156	HIGH
N4BP	BOB	246	182	44772	HIGH	OK1RR	MARTIN	32	30	960	HIGH
K6RB	ROB	261	166	43326	HIGH	W3UL	BILL	31	30	930	HIGH
K2SX	DENNIS	260	161	41860	HIGH	W2GR	MIKE	30	30	900	HIGH
AD8J	JOHN	262	159	41658	HIGH	UA1F	VASIL	24	22	528	HIGH
VA2WA	VIC	253	163	41239	HIGH	WU6X	DEN	19	19	361	HIGH
K3WW	CHAS	242	169	40898	HIGH	JF1RYU	AKI	18	17	306	HIGH
AB0S	TIM	245	160	39200	HIGH	RT9X	MIKE	17	17	289	HIGH
NN5O	LARRY	237	157	37209	HIGH	UT5NR	GENE	11	11	121	HIGH
KC9EE	GARY	233	159	37047	HIGH	RL3T	AL	11	11	121	HIGH
W6SX	HANK	238	139	33082	HIGH	VE3NNT	LES	11	11	121	HIGH
K8AJS	JOHN	231	143	33033	HIGH	US4I	ALEX	11	10	110	HIGH
K3MD	JOHN	205	150	30750	HIGH	RV3MR	VLAD	10	10	100	HIGH
DL5AXX	ULF	172	161	27692	HIGH	RW3AI	VAL	10	9	90	HIGH
VE2FK	CLAUDE	186	148	27528	HIGH	JF2IWL	DAI	9	8	72	HIGH
N4AF	AL	184	139	25576	HIGH	UR5R	ALEX	6	6	36	HIGH
K9MA	SCOTT	194	131	25414	HIGH	W0UO	JIM	278	171	47538	LOW
IT9VDQ	GIU	162	149	24138	HIGH	K5KU	GARY	281	165	46365	LOW
N3JT	JIM	194	119	23086	HIGH	K0AD	AL	257	157	40349	LOW
K4QS	CHUCK	183	111	20313	HIGH	K7SV	LAR	256	148	37888	LOW
K4GMH	MIKE	169	120	20280	HIGH	K0VBU	BILL	230	142	32660	LOW
K4AFE	JOHN	178	111	19758	HIGH	W5TM	ED	218	130	28340	LOW
LY8O	REMI	143	127	18161	HIGH	W3KB	KEITH	211	133	28063	LOW
NN4K	MAC	158	109	17222	HIGH	W1NN	HAL	204	129	26316	LOW
K1EBY	FRANK	138	119	16422	HIGH	W7ZRC	ROD	176	121	21296	LOW
KE4S	DAVE	143	97	13871	HIGH	K3IE	HUNTER	179	116	20764	LOW
IT9MUO	ALF	121	109	13189	HIGH	K2ZR	DICK	170	121	20570	LOW
K2LE	ANDY	130	100	13000	HIGH	NW0M	MITCH	190	108	20520	LOW
UX1UA	SERGE	119	103	12257	HIGH	K1DW	DALLAS	176	115	20240	LOW
K1IMI	BERT	117	94	10998	HIGH	NT2A	GENE	164	107	17548	LOW
WA3AAN	GRANT	113	91	10283	HIGH	K8FU	MARK	149	115	17135	LOW
VE3KP	KEN	108	95	10260	HIGH	W9ILY	JOHN	147	113	16611	LOW
N4KS	KEN	97	97	9409	HIGH	K5CI	LEO	146	106	15476	LOW
K8JQ	STEVE	103	91	9373	HIGH	N1DC	RICK	136	110	14960	LOW
N2NC	JOHN	114	81	9234	HIGH	K5XU	MIKE	151	98	14798	LOW
N4QS	DAVE	104	85	8840	HIGH	KP3W	JOSE	137	108	14796	LOW
WA4JUK	JOE	101	87	8787	HIGH	N8EA	JOE	122	96	11712	LOW
DL6KVA	AXEL	99	81	8019	HIGH	KB3AAY	RON	121	94	11374	LOW
RM2D	MATS	92	74	6808	HIGH	K2NV	TONY	117	92	10764	LOW
K1ESE	JOHN	73	70	5110	HIGH	NM5M	ERIC	106	84	8904	LOW

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CALL	NAME	QSOS	MULTS	SCORE	POWER	CALL	NAME	QSOS	MULTS	SCORE	POWER
W4OC	DON	100	86	8600	LOW	J11RXQ	HIRO	29	29	841	LOW
KA5M	MARSH	98	80	7840	LOW	N2SO	CHAS	28	28	784	LOW
N6BT	TOM	97	72	6984	LOW	OK1HCG	KAREL	29	27	783	LOW
N2UU	BOB	96	68	6528	LOW	G4BYG	VIC	28	27	756	LOW
KE8G	JIM	90	71	6390	LOW	N4EEV	MIKE	28	27	756	LOW
K7AZT	PAUL	92	67	6164	LOW	ON4KLG	GUY	26	26	676	LOW
K2MK	MIKE	89	69	6141	LOW	F5IYJ	PHIL	25	25	625	LOW
K1DJ	RICH	86	71	6106	LOW	VA3PM	PIERRE	26	24	624	LOW
AJ8B	BILL	88	65	5720	LOW	WT9Q	VIC	26	24	624	LOW
K3SEN	DALE	83	65	5395	LOW	W9RE	MIKE	25	23	575	LOW
AD5TT	JIM	75	63	4725	LOW	SP1AEN	MAX	26	22	572	LOW
HB9ARF	PHIL	73	64	4672	LOW	WA5LXS	DENNIS	24	23	552	LOW
K2CYE	MIKE	68	62	4216	LOW	SE4E	LARS	23	23	529	LOW
SF3A	JAN	65	56	3640	LOW	DL5YL	TINA	24	21	504	LOW
SI5Y	KURT	57	57	3249	LOW	N9NA	JOHN	22	22	484	LOW
UR5MM	RUDY	61	51	3111	LOW	W6UB	LARRY	21	21	441	LOW
W9EO	ERIC	60	49	2940	LOW	UR5EPV	VASIL	21	20	420	LOW
NE4EA	AL	61	48	2928	LOW	UR5ZGY	BORIS	20	20	400	LOW
W1KM	GREG	56	52	2912	LOW	YO3GNF	JACK	20	20	400	LOW
K5IX	DAVE	56	42	2352	LOW	RA3XCZ	VLAD	20	18	360	LOW
K8LBQ	BAIN	55	42	2310	LOW	UC4A	WOWA	17	17	289	LOW
NG7Z	PAUL	56	41	2296	LOW	KC1SA	STEVE	16	16	256	LOW
WU4B	CLARK	50	45	2250	LOW	NV9X	JIM	17	15	255	LOW
VA2SG	PETE	48	45	2160	LOW	AK4CJ	TIM	14	14	196	LOW
AA8TA	JOE	46	45	2070	LOW	K0TC	RON	14	13	182	LOW
W2VM	CRAIG	45	44	1980	LOW	UX4FC	VICTOR	12	12	144	LOW
RN9RF	VLAD	42	41	1722	LOW	UC5D	ANDY	12	12	144	LOW
KN4Y	ED	39	35	1365	LOW	N3QE	TIM	12	11	132	LOW
K3TN	JOHN	37	36	1332	LOW	G4PGD	RICK	10	10	100	LOW
SE5L	BEN	37	35	1295	LOW	KI6OY	LEE	6	6	36	LOW
SA0BXV	CLAES	38	34	1292	LOW	2E0FFT	STEVE	5	5	25	LOW
SM5IMO	DAN	35	35	1225	LOW	RW9AV	ANDY	4	4	16	LOW
4Z5LU	MIKE	33	33	1089	LOW	AB5XM	ALLAN	2	2	4	LOW
W1WBB	BILL	33	33	1089	LOW	W4QO	JIM	139	106	14734	QRP
UT8AS	VLAD	32	32	1024	LOW	N0LY	JON	82	64	5248	QRP
K8RGI	BOB	33	31	1023	LOW	VE3MGY	BRIAN	57	50	2850	QRP
WA9LEY	LEE	33	30	990	LOW	UA6AK	VAL	45	38	1710	QRP
F6JOE	JEAN	31	31	961	LOW	RD4W	SERGE	32	32	1024	QRP
KK4R	ROB	33	28	924	LOW	N8XX	ZIG	31	28	868	QRP
UT5CW	VLAD	30	30	900	LOW	KE4RG	KEN	11	11	121	QRP
RN4W	IGOR	30	30	900	LOW	VU2UR	ARASU	6	6	36	QRP
SM0Y	LARS	30	29	870	LOW						

**Session 2 Analysis:** As in 2016 session 2 the top six scores had over 300 QSOs with the top six nabbing more than 200 multipliers, each. Marv, N5AW, topped the group with 402 QSOs, 243 multipliers, and a score of 97686. Bud, AA3B, finished in second place with 376 QSOs, 212 multipliers, and a score of 79712. In the low power category, Jim, W0UO, made 278 QSOs, 171 multipliers and a score of 47538. The QRP category was won by Jim, W4QO, with 139 QSOs, 106 multipliers for a score of 14734.

### Session 3 – 2000Z to 0000Z

Session 3 results are based on the 187 logs received. Logs were submitted by stations in ITU regions 1 and 2.

CALL	NAME	QSOS	MULTS	SCORE	POWER	CALL	NAME	QSOS	MULTS	SCORE	POWER
K3WW	CHAS	426	261	111186	HIGH	K3WJV	1	332	208	69056	HIGH
AA3B	BUD	437	250	109250	HIGH	NA8V	GREG	314	211	66254	HIGH
N4AF	AL	408	244	99552	HIGH	K3MD	JOHN	311	200	62200	HIGH
N1LN	BRUCE	391	239	93449	HIGH	N8BJQ	STEVE	314	189	59346	HIGH
K0RF	CHUCK	373	248	92504	HIGH	K4BAI	JOHN	303	192	58176	HIGH
NP2X	ED	355	256	90880	HIGH	KU8E	JEFF	268	197	52796	HIGH
VA2WA	VIC	340	218	74120	HIGH	K8AJS	JOHN	264	190	50160	HIGH
WJ9B	WILL	313	236	73868	HIGH	K1EBY	FRANK	240	182	43680	HIGH
N5ZO	MARKO	317	225	71325	HIGH	VE2FK	CLAUDE	237	182	43134	HIGH

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CALL	NAME	QSOS	MULTS	SCORE	POWER	CALL	NAME	QSOS	MULTS	SCORE	POWER
DL5AXX	ULF	233	165	38445	HIGH	W1NN	HAL	252	172	43344	LOW
K4GMH	MIKE	211	169	35659	HIGH	K0AV	ALAN	240	180	43200	LOW
K2SX	DENNIS	214	161	34454	HIGH	K5KU	GARY	251	172	43172	LOW
VE4AEO	RICH	212	159	33708	HIGH	W3KB	KEITH	250	162	40500	LOW
IT9VDQ	GIU	187	171	31977	HIGH	NO5W	CHUCK	237	170	40290	LOW
WA3AAN	GRANT	189	154	29106	HIGH	W1QK	DAN	222	156	34632	LOW
WB0SND	MIKE	197	143	28171	HIGH	KP3W	JOSE	222	154	34188	LOW
N3JT	JIM	187	149	27863	HIGH	K2ZR	DICK	200	152	30400	LOW
N2NC	JOHN	198	140	27720	HIGH	N5EE	KEN	194	149	28906	LOW
W6SX	HANK	185	139	25715	HIGH	W5TM	ED	191	146	27886	LOW
K3UL	BOB	175	134	23450	HIGH	K9DX	JOHN	200	131	26200	LOW
K4AFE	JOHN	170	128	21760	HIGH	K5KJ	SAM	181	140	25340	LOW
DL3DXX	MAR	173	119	20587	HIGH	K8FU	MARK	177	138	24426	LOW
K3UA	PHIL	170	120	20400	HIGH	N8EA	JOE	180	127	22860	LOW
KE4S	DAVE	172	113	19436	HIGH	NM5M	ERIC	175	130	22750	LOW
K6RB	ROB	139	136	18904	HIGH	AA8TA	JOE	168	132	22176	LOW
IT9MUO	ALF	139	128	17792	HIGH	K1DW	DALLAS	170	130	22100	LOW
K1IMI	BERT	147	109	16023	HIGH	W9ILY	JOHN	161	118	18998	LOW
AC4CA	1	138	114	15732	HIGH	KB3AAY	RON	157	114	17898	LOW
K8JQ	STEVE	134	104	13936	HIGH	W1WBB	BILL	146	111	16206	LOW
N4KS	KEN	125	105	13125	HIGH	K0VBU	BILL	135	117	15795	LOW
W6EU	JIM	113	113	12769	HIGH	N1DC	RICK	138	114	15732	LOW
NN4K	MAC	130	95	12350	HIGH	VE3GFN	MIKE	141	107	15087	LOW
CO6RD	REY	122	101	12322	HIGH	N2UU	BOB	129	102	13158	LOW
N7NM	DOUG	107	103	11021	HIGH	AJ8B	BILL	136	96	13056	LOW
W2GR	MIKE	110	99	10890	HIGH	W4OC	DON	121	99	11979	LOW
NN5O	LARRY	109	98	10682	HIGH	K9NW	MIKE	110	93	10230	LOW
DL6KVA	AXEL	106	83	8798	HIGH	K5XU	MIKE	113	87	9831	LOW
AE1T	PETER	101	86	8686	HIGH	K4ORD	RILEY	109	90	9810	LOW
N9NA	JOHN	100	86	8600	HIGH	WA9LEY	E	111	85	9435	LOW
WA4JUK	JOE	97	80	7760	HIGH	W5LA	JIM	105	85	8925	LOW
NA6O	GARY	95	80	7600	HIGH	K1DJ	RICH	97	86	8342	LOW
K4GM	GEO	86	70	6020	HIGH	K5CI	LEO	101	82	8282	LOW
K1RV	PI	82	71	5822	HIGH	W1KM	GREG	101	78	7878	LOW
VE3NNT	LES	77	71	5467	HIGH	K3SEN	DALE	98	80	7840	LOW
W3UL	BILL	78	69	5382	HIGH	NW0M	MITCH	95	74	7030	LOW
LY8O	REMI	88	61	5368	HIGH	KA5M	MARSH	89	78	6942	LOW
OK1RR	MARTIN	84	61	5124	HIGH	WN4AFP	DAVE	89	73	6497	LOW
K1SM	BILL	68	65	4420	HIGH	K3IE	HUNTER	79	72	5688	LOW
K7OM	TED	62	57	3534	HIGH	K2CYE	MIKE	77	71	5467	LOW
KC9EE	GARY	55	55	3025	HIGH	KE8G	JIM	71	69	4899	LOW
KE0EK	DAVID	54	51	2754	HIGH	KG3V	TOM	74	64	4736	LOW
KJ9C	MEL	50	50	2500	HIGH	NG7Z	PAUL	70	67	4690	LOW
N0KQ	BILL	48	42	2016	HIGH	NE4EA	AL	75	59	4425	LOW
K4HQK	JOHN	42	42	1764	HIGH	K9CW	ANDY	75	57	4275	LOW
WH7W	MARK	41	40	1640	HIGH	N4EEV	MIKE	66	60	3960	LOW
W9RE	MIKE	40	37	1480	HIGH	N2SO	CHAS	64	59	3776	LOW
G4NVR	PHIL	41	36	1476	HIGH	K7AZT	PAUL	62	60	3720	LOW
VE2AX0	BOB	36	32	1152	HIGH	W5MJ	MADISON	61	58	3538	LOW
K3PP	GLENN	35	31	1085	HIGH	W2VM	CRAIG	58	56	3248	LOW
K8BZ	STEVE	31	31	961	HIGH	VA2SG	E	54	51	2754	LOW
SD1A	ERIC	30	26	780	HIGH	WA5LXS	DENNIS	55	50	2750	LOW
G0MGM	ROB	28	27	756	HIGH	HI8A	RAFA	55	50	2750	LOW
SM9A	STEF	26	25	650	HIGH	N8II	JEFF	52	51	2652	LOW
WT2P	CJ	25	25	625	HIGH	NV9X	JIM	53	48	2544	LOW
K1ESE	JOHN	26	24	624	HIGH	K8RGI	BOB	51	43	2193	LOW
KR2AA	ERIC	22	22	484	HIGH	K2MK	MIKE	45	44	1980	LOW
RW3AI	VAL	20	18	360	HIGH	WQ6X	RON	44	42	1848	LOW
WC7Q	SAM	18	18	324	HIGH	W4NZ	TED	45	41	1845	LOW
UA1F	VASIL	13	11	143	HIGH	KK4R	ROB	44	40	1760	LOW
K6CSL	BERT	11	11	121	HIGH	W3HZZ	PHIL	38	38	1444	LOW
RV3MR	VLAD	7	7	49	HIGH	K0TC	RON	36	33	1188	LOW
E74X	VELJKO	5	5	25	HIGH	WT9Q	VIC	35	33	1155	LOW
UT5NR	GENE	2	2	4	HIGH	HB9ARF	PHIL	36	32	1152	LOW
DH8MS	NICK	1	1	1	HIGH	SF3A	JAN	35	29	1015	LOW
OH2BN	JARMO	1	1	1	HIGH	SP1AEN	MAX	33	28	924	LOW
K7SV	LAR	336	221	74256	LOW	W7GB	DON	28	28	784	LOW
K0AD	AL	270	183	49410	LOW	UR5MM	RUDY	26	22	572	LOW
W0UO	JIM	253	183	46299	LOW	SE5L	BEN	24	22	528	LOW

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CALL	NAME	QSOS	MULTS	SCORE	POWER	CALL	NAME	QSOS	MULTS	SCORE	POWER
W9EO	ERIC	24	22	528	LOW	NJ4Q	WILL	6	6	36	LOW
K8LBQ	BAIN	23	22	506	LOW	W4QO	JIM	157	108	16956	QRP
F5IYJ	PHIL	21	21	441	LOW	K1VUT	DAVE	144	101	14544	QRP
WP4EE	NELSON	20	20	400	LOW	N0LY	JON	101	82	8282	QRP
DK4LX	HOLGER	19	19	361	LOW	EC7ABV	TONY	77	67	5159	QRP
K5IX	DAVE	16	16	256	LOW	KI4MZC	DON	63	56	3528	QRP
RA3XCZ	VLAD	17	14	238	LOW	KE4RG	KEN	53	48	2544	QRP
OK1HCG	KAREL	15	15	225	LOW	N6GA	CAM	51	49	2499	QRP
W6TN	TRUNG	13	13	169	LOW	K0GUZ	STEVE	43	39	1677	QRP
VA3PM	PIERRE	13	13	169	LOW	N8XX	ZIG	38	35	1330	QRP
KI6OY	LEE	14	12	168	LOW	K1SX	DAVE	23	23	529	QRP
2E0FFT	STEVE	11	11	121	LOW	UA6AK	VAL	22	19	418	QRP
K3YNY	RICK	10	10	100	LOW	DM2DZM	PETER	5	5	25	QRP
OF5ZA	ZABA	9	9	81	LOW	DL8UKW	ULI	1	1	1	QRP
G4PGD	RICK	7	7	49	LOW	N0MII	JEFF	1	1	1	QRP
WM5F	DWIGHT	7	7	49	LOW						

**Session 3 Analysis:** Session 3 finished with Chas and Bud swapping positions from Session 1. This time Chas, K3WW, is taking home the trophy and the plaque for high power with 426 QSOs, 261 multipliers, and a score of 111186. Bud, AA3B, was right on his tail with 437 QSOs and 250 multipliers for a score of 109250. Fourteen high power finishers made over 300 QSOs, up from the eleven from 2016. Lar, K7SV, reclaimed the first place low power position with 336 QSOs, 221 multipliers and a score of 74256. Finally, Jim, W4QO, pulled in another first place QRP finish with 157 QSOs, 108 multipliers a score of 16956.

### Team Scores

Putting together a team to participate in the CW Opens is always a fun way to increase participation and friendly intra and inter team competition. This year we had 14 teams register. The team sizes ranged from only 2 members up to the maximum allowed of 10 members. Of the four teams that registered 10 members only 1 team had 100% participation.

#### 1st: The Exuberants

K1EBY	94,171
K1IMI	63,816
K7SV	171,344
N1LN	236,903
N4AF	127,823
N5ZO	227,040
NA8V	174,343
W6SX	109,779
W9RE	78,799
<u>WJ9B</u>	<u>201,328</u>
	1,485,346

#### 2nd: FRC

K3MD	149,650
AA3B	294,947
K3WW	245,648
N3AD	No Log
K2WJV	48,024
W3KB	106,601
K3PP	3,126
K3UL	64,898
N3DXX	No Log
<u>N2NC</u>	<u>36,954</u>
	949,848

#### 3rd: Deep Dixie CC Team 1

K4AFE	66,157
K1DW	63,284
K5KG	No Log
K5KU	137,353
K6RB	118,883
N4BP	82,952
N8BJQ	164,261
NP2X	219,182
NP3A	No Log
<u>W5TM</u>	<u>92,554</u>
	632,890

#### 4th: SECC

K4BAI	181,657
KU8E	76,296
W4OC	20,579
K2SX	125,314
N4EEV	25,456
NN4K	45,622
WU4B	2,475
K8LBQ	2,816
<u>N3JT</u>	<u>77,969</u>
	477,399

#### 5th: Deep Dixie CC Team 2

NN5O	75,683
AB0S	83,699
AD5TT	4,725
IT9MUO	38,866
IT9VDQ	78,555
K5XU	37,454
K8FU	41,561
KG5U	No Log
N5EE	75,446
<u>WQ5R</u>	<u>No Log</u>
	360,543

#### 6th: Contest Group du Quebec

VA2WA	166,830
VE2FK	98,548
<u>VE2QA</u>	<u>No Log</u>
	265,378

#### 7th: DFW Contest Group

NM5M	33,253
N5JR	28,288
W0OU	90,735
K5CI	23,758
W8FN	46,816
K5GA	0
W5MT	0
<u>N5AW</u>	<u>112,590</u>
	222,850

#### 8th: Niagara Frontier Radio-sport

K2ZR	82,068
K2NV	36,634
AA2ZW	No Log
K2QO	No Log
K2QB	14,595
W2VM	7,728
<u>W2GR</u>	<u>11,790</u>
	152,815

#### 9th: Metro Marauders

W9Ily	41,814
WA9LEY	20,659
N9TK	No Log
NV9X	3,474
<u>K9CJ</u>	<u>No Log</u>
	65,947

#### 10th: Swamp Foxes

WN4AFP	6,821
NE4EA	10,097
<u>K70M</u>	<u>8,586</u>
	25,504

#### 11th: Team Rusty Bucket

W1BBB	24,675
<u>N4MKJ</u>	<u>No Log</u>
	24,675

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**12th: Swedish Global Cwops**

<b>Team</b>	
RM2D	8,358
SD1A	3,837
SE4E	697
SI5Y	3,249
SM0Y	870
SE5L	1,823
<u>SM5CCE</u>	<u>No Log</u>
	18,834

**13th: NorDX Club**

VA2SG	6,982
<u>VE2VIA</u>	<u>No Log</u>
	6,982

**14th: Kuala Lumpur DX Team**

9M2ROL	No Log
9M2DOX	No Log
9M2OOO	No Log
9M2AGC	No Log
9M2VDX	No Log
9M2JEP	No Log
9M2ZDX	No Log
9M2UDE	No Log
9M2AIS	No Log

**Team Analysis:**

The top team this year was the **Exuberants** with a final score of 1,485,346. All 10 members participated in all three sessions giving them a major advantage. The FRC team came in second with only 8 members reporting, one of which only reported for one session. Even with reduced participation they turned in a fine score of 949,848. The other two 10 member teams had members that were unable to participate for specific sessions or at all which greatly impacted their scores.

**Trophies:**

**Giuseppe (Giu) Giunta, IT9VDQ**

**Combined Scores, ITU Region 1 Winner**

519 QSOs      452 Multipliers      78555 points

**Session 1, ITU Region 1, Winner**

170 QSOs      132 Multipliers      22440 point

**Ulf Ehrlich, DL5AXX**

**Session 2, ITU Region 1, High Power Winner**

172 QSOs      161 Multipliers      27692 points

**Session 3, ITU Region 1, High Power Winner**

233 QSOs,      165 Multipliers      38445 points

**Joseph "Bud" Trench, AA3B**

**Combined Scores, ITU Region 2 Winner**

1264 QSOs      697 Multipliers      294947 points

**Session 1, ITU Region 2, Winner**

451 QSOs      235 Multipliers      105985 points

**Marvin "Marv" Bloomquist, N5AW**

**Session 2, ITU Region 2 High Power Winner**

402 QSOs      243 Multipliers      97686 points

**Charles (Chas) Fulp, K3WW**

**Session 3, ITU Region 2 High Power Winner**

426 QSOs      261 Multipliers      111186 point

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**Plaques:**

**High Power –**

**Giuseppe (Giu) Giunta, IT9VDQ**

**Session 1, ITU Region 1, High Power Winner**

170 QSOs      321 Multipliers      22440 points

**Ulf Ehrlich, DL5AXX**

**Session 2, ITU Region 1, High Power Winner**

172 QSOs      161 Multipliers      27692 points

**Session 3, ITU Region 1, High Power Winner**

233 QSOs,      165 Multipliers      38445 points

**Joseph “Bud” Trench, AA3B**

**Session 1, ITU Region 2, High Power Winner**

451 QSOs      235 Multipliers      105985 points

**Marvin “Marv” Bloomquist, N5AW**

**Session 2, ITU Region 2 High Power Winner**

402 QSOs      243 Multipliers      97686 points

**Charles (Chas) Fulp, K3WW**

**Session 3, ITU Region 2 High Power Winner**

426 QSOs      261 Multipliers      111186 point

**Low Power -**

**Larry “Lar” Schimelpfenig, K7SV**

**Session 1, ITU Region 2 Low Power Winner**

320 QSOs      185 Multipliers      59200 points

**Session 3, ITU Region 2 Low Power Winner**

326 QSOs      331 Multipliers      74256 points

**James “Jim” Spaulding, W0UO**

**Session 2, ITU Region 2, Low Power Winner**

278 QSOs      171 Multipliers      47538 points

**QRP -**

**Brian Campbell, VE3MGY**

**Session 1, ITU Region 2, QRP Winner**

158 QSOs      113 Multipliers      17854 points

**James “Jim” Stafford, W4QO**

**Session 2, ITU Region 2 QRP Winner**

139 QSOs      106 Multipliers      14734 points

**Session 3, ITU Region 2 QRP Winner**

157 QSOs      114 Multipliers      16956 points





# CWops Tests

[Rich Ferch VE3KI](#)

Recently there has been another “outage” on the CWT Scores web pages. Maybe a note on why I think this is happening will help. Those web pages (the ones that are accessed from the CWops web site) are compiled by an automated script written and maintained by Joe Hetrick KC0VKN. As I understand it, Joe has an email account that is subscribed to the 3830 email reflector, and the script scans the incoming emails for CWT claimed scores and pulls the claimed scores out of those emails. The emails are simple fixed-format text files, so pulling the required information out of them is relatively straightforward.

I believe the problem arises when something goes wrong with the email delivery. Sometimes it appears that the email connection goes missing for a few hours. When this happens, the emails that were sent by the reflector during that time are never received by the script processor. For whatever reason, they don't just get delayed – they are apparently never delivered at all, and claimed scores that were submitted during the hours or days in question never get added to the list.

If my diagnosis is correct, the best way I can think of to fix this when it happens would be for someone to go through the 3830 archives at lists.contesting.com, work out which claimed scores are missing, and then collect all of the missing ones (a couple of hundred in the most recent case) and run them through the script processor. I suppose that might be a suitable task for someone with time on their hands and a hankering to do some forensic accounting.

Whatever the problem is, it does not appear to be affecting the claimed score summaries at 3830scores.com. These are the source for the data used to decide on the CWT participation awards. Another way to keep track of your progress towards these awards would be to go to 3830scores.com, enter your call sign in the call sign box at the top left of the page, and then count the number of CWopsT entries for your call sign in the current year. Don't count any entries where you didn't make the required minimum number of QSOs.

As of 30 November, with 144 out of the 156 CWT sessions for this year on the books, we still had four members with 100% participation records: K0MP, N4FP, N5PHT and UR5MM. Unhappily, as reported on the CWops Yahoo group and elsewhere, Larry UA6HZ/N2WW, who had participated in all of the sessions up to November 1, became a silent key on December 1. RIP, Larry – we will miss you.

At this point there are now something like 44 members who have already reached the gold level, with another 9 or 10 who seem likely to get there by the end of the year. The expected numbers of silver and bronze awards to be handed out for 2017 are even higher. I am estimating a total of about 185 awards – more if a few people put on a list minute push, fewer if the holiday season results in people missing some sessions for more important family activities.

Participation in the 0300Z sessions has increased somewhat since the Northern hemisphere daylight saving time change, which makes it a bit easier for folks in eastern North America to participate in that session. On the other hand, scores in general are a bit lower, probably mainly as a result of the continuing decline in propagation. Don't let that stop you, though – working your way through the obstacles propagation puts in your way is part of the game.

We do the CWTs because they're fun; let's all make sure they continue to be fun for everyone.

73,

*Rich*, VE3KI (aka CG3KI in 2017)



# CW Academy

## [Jerry Weisskohl, AC4BT](#)

The results of the September/October 2017 CW Academy (CWA) have been tabulated.

Thanks to the outstanding work of the elite team of CW Academy advisors and associate advisors, CWA graduated a record 214 students this last semester! Here is the breakdown: (The complete semester summary and list of graduates can be found at the end of this article)

- 149 students successfully completed and graduated Level 1
- 48 students successfully completed and graduated Level 2
- 17 students successfully completed and graduated Level 3

CW Academy's winter semester (January/February 2018) will be kicking-off the first week in January. I just completed and sent out the student assignments to the CWA Advisors, and the Advisors are now busy contacting their new students and preparing for the start of the semester. This will be the 18th overall semester that CWA has conducted CW classes. The very first CWA semester was conducted in the spring of 2011.

There are two new CW Academy student enhancements that will begin January 1 2018.

The first one is a new student 'SKED' web page. This is where students can go to arrange on the air CW QSOs with other CWA students and Advisors. This web page will accommodate all levels of students – new, inexperienced or experienced in making QSOs, and allow them to leave messages requesting a QSO. The messages are 'real-time' and can be seen by all. The URL to the new CW Academy SKED page is below. Anyone can go the web site and create a new account which will then allow them to enter and respond to messages.

<http://n8fq.org/sked/index.php?board=cwacademy>

The second enhancement for the new CWA semester is our new CW Academy Facebook page. Here is the URL:

<https://www.facebook.com/groups/163719971032485/>

The new CW Academy Facebook page has been set up as a public group open to all. The latest CW Academy information will be shared. Students can leave comments and questions.

For the Jan/Feb 2018 CW Academy semester we have 56 Advisors and a total of 317 enrolled students: 209 Level 1 students, 80 Level 2 students and 28 Level 3 students.

As you can see, CW Academy student signups continue to increase and CWA is struggling to meet this increased demand. CWA has a continued need for additional Advisors in all areas of the World. The team of CWA Advisors is comprised of dedicated volunteers providing CW instruction internationally at no cost to the students.

If you love CW and want to join us in our mission to ensure that CW remains relevant and continues to prosper, please consider joining the Academy's elite team of Advisors. All it takes is a love of CW and a

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desire to help aspiring students learn to use CW. It's fun and rewarding and you will make many new life-long friendships at the same time!

CW Academy's classes are conducted using Skype video conferencing. This allows us to connect to students all over the world using the Internet. Minimal equipment is needed for both students and Advisors. Just a little free time and a desire to help people by sharing your CW skills and expertise.

More information about becoming a CWA Advisor can be found at the CWops website ([www.cwops.org](http://www.cwops.org)). The link for the sign up form for becoming a CWA Advisor is:

<http://cwops.org/cwa-advisor-su.html>.

Here's to another successful and fun-filled CW Academy semester!

73,

*Jerry*, AC4BT, CW Academy Manager

## Results of the September/October 2017 CW Academy Semester

The CW Academy September - October 2017 semester graduated 214 CW students led by 55 Advisors and 4 Associate Advisors. Below is a list of advisors, Associate Advisors, and student graduates from this semester:

September - October 2017 Semester – 55 Advisors and 4 Associate Advisors

### Advisors – 3 classes

Jerry AC4BT, Dallas K1DW

### Advisors - 2 classes

Ed K6HP, Rob K6RB, Joe KK5NA, Alex PA1FOX, Ron WM9Q

### Advisors – 1 class

Vic 4X6GP	Al K0AD	Mark K5GQ	Danny KF7Z	Eric NM5M	Chris W4ALF
Joe AA8TA	Bill K0MP	Kim K5TU	Bill N0KQ	Mac NN4K	Barry W4LSV
John AC4CA	Bill K1AQB	Kate K6HTN	Joe N3HEE	Dan SA2RFQ	Madison W5MJ
Jim AD5TT	Bruce K1BG	Lar K7SV	Kenny N5EE	Ron VE3FXX	Trung W6TN
Alan AD6E	Rich K1DJ	Bruce K8UDH	Dan N5TM	Doug VE3MV	Terry WB0JRH
Bill AJ8B	Dennis K2SX	Ken KE4RG	Bill N7YT	James VK4TJF	Andy WB7DKZ
Keith G0HKC	John K4AFE	Jim KE8G	Gary N8LR	Bill W0EJ	Will WJ9B
Stew GW0ETF	Paul K4JAZ	Scott KF7GGN	Ed N9EP	Phil W3HZZ	Bob WR7Q

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### Associate Advisors

Nancy KG0YL, John KM5PS, Jim N4TMM, Glenn W4YES

**September - October 2017 Semester – Students who completed: 214 graduates**

#### Level 1 Graduates: 149

2E0DIG	AK6MM	KB1MYB	KE9I	KK6NVZ	N3RPE	VE3EKN	W5WI
2E0GBF	EA3HOE	KB4DE	KF6KAT	KK6RKZ	N3XJN	VE3XKZ	W6OKY
AA5OY	IZ4BKK	KC1BJT	KG4TIO	KM4AE	N4FBO	VE7JBT	W7BSK
AB0V	K0PD	KC1CRS	KG5HLB	KM4IVI	N4LAG	VK3FB	W8DHV
AB1WQ	K3MRH	KC1YL	KG7FOP	KM4VCG	N4SRN	VU3YPP	W8PL
AB5TH	K4MV	KC1ZEK	KG7NJF	KM6LUP	N5SUN	W06M	W9BRI
AC9FO	K4OBI	KC3COD	KG7WHX	KM6P	N5WEM	W1CX	WB2UQP
AD6PR	K4RLE	KC8DHY	KI3F	KO6MD	N5XBS	W1VER	WB4GLJ
AD6YT	K4SFC	KC9JYF	KI4EZK	KS5V	N6ZKL	W2OZB	WB5HLZ
AE2L	K4SNE	KC9MBL	KI4EZL	KT4V	N7AOR	W4CCH	WD8LEE
AE4RM	K4YWZ	KD2EIM	KI4KWR	KV4PY	N7CX	W4DHW	WN0ZOS
AE5MI	K5ACL	KD2MZH	KI7CNI	KY5G	ND3W	W4MTP	WP4OSG
AE7EU	K5RAB	KD2WX	KI7DPP	M0NPT	NY6W	W4PBJ	WX4D
AF5JH	K5YNC	KD5UYP	KI7NQN	N0SMX	NZ2W	W4YAT	WX4K
AG5EY	K6FTZ	KD8ZZJ	KJ4DSC	N1QX	PA1LDB	W5CMM	YO6GZI
AI4VV	K6PVA	KD9ARR	KJ4KHX	N1VH	PA1RE	W5KEY	ZR6XZ
AI4XF	K6ROQ	KD9GXP	KJ6KQI	N2GBR	PA3FOE	W5MTN	
AI6VW	K9ASE	KE0JZS	KJ7NY	N3FQ	PC4D	W5NEC	
AK4QH	KA9SXV	KE6MT	KK4BK	N3JWM	VA2GLU	W5SLU	

#### Level 2 Graduates: 48

AB9XI	K4AAA	KA2PBT	KD2KRG	KM4THR	N1RM	PF5T	W6YR
AG5FX	K4UB	KA4RNH	KF6C	KN4CKQ	N4PIR	W0RLY	W7RX
AI6V	K5MM	KB3SAR	KI0KN	KX8I	N6VTS	W3GWM	W9KCL
AJ1DM	K6HS	KB5RF	KJ4CC	M0BDB	ND8MS	W3PNM	WA5LSV
G0WCZ	K8JLW	KC1FLN	KJ8R	M0OJO	PA3GAT	W3TW	WB7QQE
G3WZD	K8MMG	KC9YL	KK5MT	N0SUR	PD2R	W4JWC	WX4W

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**Level 3 Graduates: 17**

AA6MK	GM0EUL	K6YF	N3NFL	VA7QCE	W6PHO
AC6AC	K0ZU	KD2FSH	NM1Y	W4TDV	W7EEE
AH0U	K1CHM	N2JFD	VA7ADI	W5UTW	

## New Members

### Trung Nguyen W6TN

With great pleasure we welcome the following new members to CWops:

CWops	Call	Name
1911	AC6AC*	Buz
1912	VE6UX	Bob
1913	VA7QCE*	Carole
1914	N6HCN*	John

CWops	Call	Name
1915	WJ8Y*	Gregg
1916	VE3CEB*	Gerd
1917	NX4N	Chris
1918	KD2FSH*	Jerry

CWops	Call	Name
1919	OH6NVC	Mika
1920	N5NU	Jason

\*Indicates a Life Member

## Current Nominees

As of December 2, 2017

**Need Sponsors:** KG7A, DL9ABM

**Invitations Extended:** K9GDF, NE8J, K9XE, K5VI

For more details about nominees and up-to-date status, check the “Members Only” page on the website: <http://www.cwops.org>.

For information about joining CWops, check the “Membership” page on the website: <http://www.cwops.org>

Notes: If you have updated your personal info, e.g., new qth, new callsign, or additional callsign, please send it to [membership@cwops.org](mailto:membership@cwops.org) so I can add it to the roster. Vice versa, if your callsign becomes inactive I can remove it, too. Then the roster will be accurate and current for our usage. Thank you.

73,

*Trung*, W6TN, Membership Secretary



# CWops Member Awards

[Pete W1RM](#) and [Peter W1UU](#)

The Annual Competition Award (ACA) is based on the number of members worked each calendar year. You get one point per member worked, once per year. It resets to zero at the beginning of each year. The Cumulative Member Award (CMA) is based on how many members you've worked since January 3, 2010 on each band and continues to grow in perpetuity. The CWops Award Manager (CAM) software, available at no cost, will help you keep track of your ACA and CMA totals.

In the table below, members whose call sign is in **RED** have achieved a milestone: 100 DX entities, 40 WAE entities, 50 states (WAS). Members who wish to track their totals for these awards can use the CAM software developed by N5RR. It's available at no cost here: [www.bbcyber.com/cam/](http://www.bbcyber.com/cam/)

Call	ACA	CMA	Call	DX Total	Call	WAS	Call	WAE	Call	WAZ
AA3B	1002	6839	<b>W1RM</b>	<b>178</b>	<b>N5RR</b>	<b>50</b>	<b>W1RM</b>	<b>48</b>	W1RM	38
W1RM	801	4973	<b>F6HKA</b>	<b>169</b>	<b>W1RM</b>	<b>50</b>	<b>F6HKA</b>	<b>45</b>	F6HKA	38
N5PHT	753	2551	<b>W4VQ</b>	<b>147</b>	<b>W4VQ</b>	<b>50</b>	<b>OK1RR</b>	<b>44</b>	W4VQ	37
N8BJQ	737	4624	<b>G4BUE</b>	<b>128</b>	<b>F6HKA</b>	<b>50</b>	<b>N5RR</b>	<b>43</b>	G4BUE	37
VE3KI	696	4358	<b>N5RR</b>	<b>118</b>	<b>W1UU</b>	<b>50</b>	<b>G4BUE</b>	<b>43</b>	VE3KI	36
DL6KVA	689	2164	<b>OK1RR</b>	<b>115</b>	<b>VE3KI</b>	<b>50</b>	<b>DL6KVA</b>	<b>43</b>	N5RR	36
K3MD	689	1734	<b>VE3KI</b>	<b>114</b>	<b>G4BUE</b>	<b>50</b>	<b>VE3KI</b>	<b>42</b>	N5PHT	36
F6HKA	645	4497	<b>N8BJQ</b>	<b>114</b>	<b>EA8OM</b>	<b>50</b>	<b>N8BJQ</b>	<b>42</b>	I5EFO	33
K1ESE	641	2897	<b>DL6KVA</b>	<b>113</b>	<b>W0EJ</b>	<b>50</b>	<b>EA8OM</b>	<b>42</b>	DL6KVA	33
K8AJS	621	1501	<b>OH2BN</b>	<b>112</b>	<b>F6JOE</b>	<b>50</b>	<b>W4VQ</b>	<b>41</b>	IK0YVV	32
K5AX	558	2602	<b>EA8OM</b>	<b>111</b>	<b>W6KY</b>	<b>50</b>	<b>I5EFO</b>	<b>41</b>	VK7CW	30
NA6O	510	2072	<b>K1ESE</b>	<b>104</b>	<b>N1EN</b>	<b>50</b>	<b>OH2BN</b>	<b>40</b>	RM2D	29
W9ILY	509	3077	AA3B	98	<b>N5PHT</b>	<b>50</b>	<b>AA3B</b>	<b>40</b>	JF2IWL	25
K1DJ	507	1085	I5EFO	95	<b>F5MNK</b>	<b>50</b>	SM6CNN	37	F5IYJ	21
AA8TA	480	798	W9ILY	93	<b>K5IX</b>	<b>50</b>	K3MD	37	N1DC	20
K9WX	477	2191	W0VX	93	<b>K3SEN</b>	<b>50</b>	K1ESE	36	W6NS	19
NN4K	457	1573	SM6CNN	93	<b>AD1C</b>	<b>50</b>	IT9MUO	36	K8AJS	10
K0MP	454	803	EA1WX	92	<b>AB7MP</b>	<b>50</b>	F6JOE	36	NN4K	9
KY7M	440	3252	N5PHT	91	<b>AA3B</b>	<b>50</b>	W9ILY	34	ND1R	5
IT9VDQ	424	1381	N1EN	86	<b>K5AX</b>	<b>50</b>	W1UU	34		
KE4S	421	1440	KY7M	86	<b>I5EFO</b>	<b>50</b>	W0VX	34		
IT9MUO	403	1674	IT9MUO	86	<b>VK7CW</b>	<b>50</b>	KZ5D	34		
N1DC	402	1776	F6JOE	84	<b>DL6KVA</b>	<b>50</b>	KR3E	34		
K3SEN	385	1279	AD1C	83	<b>K0TC</b>	<b>50</b>	EA1WX	34		
K0TC	377	2048	K5AX	80	<b>KY7M</b>	<b>50</b>	RM2D	33		
I5EFO	339	584	PA7RA	79	<b>NA6O</b>	<b>50</b>	IT9VDQ	33		
G4BUE	337	3371	KZ5D	78	<b>K1DJ</b>	<b>50</b>	N1EN	32		
RM2D	333	1059	DL8PG	78	W9ILY	49	KY7M	32		
W0VX	331	2988	4X6GP	76	W0VX	49	F5MNK	32		

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Call	ACA	CMA	Call	DX	Call	WAS	Call	WAE	Call	WAZ
F6JOE	303	2758	W1UU	75	NN4K	49	PA7RA	31		
W4VQ	302	2615	VK7CW	75	N8BJQ	49	DL8PG	31		
W1UU	298	2141	KR3E	73	N1DC	49	K5AX	30		
K5IX	274	892	F5IYJ	73	KT5V	49	IK0YVV	30		
KE4RG	273	468	RM2D	71	K9WX	49	4X6GP	30		
W6KY	248	2088	N1ZX	70	K8AJS	49	NN6T	29		
AD1C	241	2101	IT9VDQ	68	K6RB	49	F5IYJ	29		
VK7CW	225	1318	F5MNK	68	K6DGW	49	N1ZX	28		
G0MGM	221	391	NN6T	67	K3MD	49	GW0ETF	28		
K6DGW	214	1718	GW0ETF	67	K1ESE	49	AD1C	28		
AB7MP	191	759	NA6O	58	IT9VDQ	49	N1DC	26		
G4HZV	183	413	KE4S	58	GW0ETF	49	K1DJ	26		
G4NVR	180	403	N1DC	57	WB9G	48	JF2IWL	26		
4X6GP	156	1095	IK0YVV	57	W6NS	48	G4HZV	26		
DL8PG	150	1743	W6KY	56	SM6CNN	48	KE4S	25		
F5IYJ	149	613	K6RB	56	NN6T	48	K8AJS	25		
VK4TJF	80	430	K1DJ	54	N1ZX	48	VK7CW	24		
ND1R	61	67	K0TC	53	KZ5D	48	N5PHT	24		
JF2IWL	52	930	JF2IWL	51	KE4S	48	K6RB	24		
N5RR	0	4098	4Z1UF	50	K0MP	48	G4NVR	24		
K6RB	0	3658	G4DRS	49	IK0YVV	48	G4DRS	24		
KZ5D	0	3239	WB9G	48	DL8PG	48	G0MGM	24		
IK0NOJ	0	3093	K9WX	48	AD5A	48	HB9ARF	23		
EA8OM	0	2758	K8AJS	48	AA8TA	48	NA6O	21		
SM6CNN	0	2477	NN4K	47	4X6GP	48	4Z1UF	21		
N1EN	0	1928	K3SEN	45	VE3MV	47	K2ZC	20		
N2UU	0	1774	G4HZV	45	NU7Y	47	WB9G	19		
EA1WX	0	1724	G0MGM	42	KR3E	47	NN4K	19		
OK1RR	0	1618	KT5V	41	K0DTJ	47	K9WX	19		
NN6T	0	1577	K3MD	41	JF2IWL	47	W6KY	18		
GW0ETF	0	1451	HB9ARF	41	WX7SJ	46	VK4TJF	18		
KG5U	0	1322	K6DGW	39	KG5U	46	K3SEN	18		
PA7RA	0	1200	W6NS	38	IT9MUO	46	G3YJQ	18		
KR3E	0	1136	K2ZC	37	G4DRS	46	AD5A	18		
F5MNK	0	1111	W0EJ	36	EA1WX	46	KG5U	17		
W6NS	0	1090	G4NVR	36	OK1RR	45	K0TC	17		
KT5V	0	1088	VK4TJF	35	K3WJV	45	K3WJV	16		
AD5A	0	1071	KG5U	35	K2ZC	45	KT5V	14		
4Z1UF	0	1032	AD5A	35	F5IYJ	45	W6NS	12		

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Call	ACA	CMA	Call	DX	Call	WAS	Call	WAE	Call	WAZ
W5ASP	0	1018	K0DTJ	29	PA7RA	44	VE3MV	12		
PA4N	0	955	G3YJQ	27	VK4TJF	43	K6DGW	12		
N1ZX	0	940	K3WJV	25	RM2D	43	W0EJ	10		
WB9G	0	888	K5IX	24	KM4FO	43	G3XLG	10		
K3WJV	0	882	VE3MV	23	HB9ARF	43	K5IX	8		
K2ZC	0	767	AB7MP	22	OH2BN	42	K0MP	8		
IK0YVV	0	767	NU7Y	21	KE4RG	40	W5TM	7		
W0EJ	0	754	G3XLG	18	NV9X	38	KE4RG	7		
K0DTJ	0	742	AA8TA	18	G4NVR	38	G0DJA	7		
HB9ARF	0	723	K0MP	17	G3YJQ	37	AB7MP	7		
KM4FO	0	721	WT2P	14	4Z1UF	36	AA8TA	7		
VE3MV	0	664	KE4RG	12	WT2P	34	K0DTJ	6		
WX7SJ	0	610	W5TM	11	G4HZV	34	KM4FO	5		
WT2P	0	574	KM4FO	10	G0MGM	33	WT2P	4		
OH2BN	0	530	G0DJA	10	W5TM	32	ND1R	2		
G4DRS	0	496	ND1R	5	G3XLG	31	NV9X	1		
NU7Y	0	479	NV9X	4	ND1R	24				
W5TM	0	235	KE6K	4	KE6K	17				
G3YJQ	0	234			G0DJA	8				
G3XLG	0	201								
NV9X	0	149								
KE6K	0	116								
G0DJA	0	23								
PA1FOX	0	5								

## QTX Report

### Enjoying the Art of Conversational CW

[Gary Stone N5PHT](#)

Welcome to November 2017 QTX report. WE CELEBRATE A RECORD NUMBER OF MONTHLY QTX SO FAR THIS YEAR., with 575 QTX points reported!

By the time you see this I imagine many of our members from the USA and perhaps elsewhere enjoyed a great Thanksgiving meal. Indeed we have many things to be thankful for in my view. Hope your upcoming holiday season will be filled with Joy – and maybe a new radio gadget or two!

SPECIAL WELCOME to first time (at least this year) reporters: WA3GM, N6HCN and W9EBE.

As you read this the QTX Award Certificates are now available for you to download. They are for 100,

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500 and 1000 QTX Points. Just find them on the QTX Section of the Members Only Section at [CWops.org](http://CWops.org). As is the case for all of our Awards they are honor system. You download them and then complete the info and print them. I would love to hear from members earning awards. And REMEMBER please (optional of course) to include your lifetime QTX totals in the form each month in the space now provided for me to gather that information.

If you want to be added to the QTX listings please send in your count for the month from the Members Only Section of the Web Page. Remember any 20 minute or longer QSO counts and it does NOT have to be with a CWOps Member. Only CWOps Members can send in reports but the rag chews can be with anyone and as often as you like for multiple counts.

### **Rag Chewer Comments**

N5PHT: Between being sick with a nasty flu bug and still trying to do some Parks on the Air activation my QTX numbers are down this month but I am happy to say I hit the 1000 mark for the year.

I5EFO: I'm happy to have reached the bronze medal. 73 de Emil, I5EFO (1486)

WA3GM: Just a simple rag chew for 20-25 minutes. Equipment, WX, retired from police department...

K5KV: I wish i had an easy way to farm data before 2014. I only have data back to 2012 but will require manual mining for those two extra years. I really enjoyed W6SFM bug roundup in November and look forward to FOC bug day on Jan 1, 2018. See K5KV at qrz.com for details. It runs along with SKN and Bug Day, QSOs count for both and it is open to all hams.

W9EBE: Although I've been a ragchewer since my Novice days (1970), I've never really paid much attention to the precise length of QSOs -- until now. All I knew was that the longer the QSO, the better the QSO! Since becoming a member of CWops, I've started using a nifty timer feature in my logging program that really comes in handy for keeping track of actual QSO duration. Many thanks to those with whom I enjoyed some most interesting and fun ragchews! 73 es ZUT

N7YDT: Nice QSO with N6KIX Rob. He has nice collection of bugs and a very pleasant fist to copy.

WA8IWK: Rag Chews always remind me what amazing people we often meet over the airwaves. I actually think the bios on QRZ.com are a great source of interesting information about our fellow Hams.

N6HCN: Hope to double this next month. Many Q's not quite 20 min, I'll be more verbose in Dec! Standouts were K1NVY, Fred, who always likes to gab, and Ken N4KS, whose shipboard life I would like to hear more about.

K8UDH: I really like QTX QSOs. You can't beat a nice CW ragchew. I'm finding quite a few ops who grew up enjoying long CW QSOs back in their Novice days like I did. In my most interesting QSO this month Jim was running a homebrew two tube xtal controlled rig, with less than \$100 invested. Only 26 QTX QSOs to the 200 mark.

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Remember that we give out QTX Medals at the end of the year for 3 levels:

- Gold Medal – 400 QTX Points
- Silver Medal – 300 QTX Points
- Bronze Medal – 200 QTX Points

And so far this year we have several medal winners:

- GOLD – N5PHT, N5IR, K5KV, K1ESE
- SILVER – KC0VKN, G4ILW
- BRONZE – I5EFO, KB6NU, K5YQF

### QTX Reports for October 2017

Call	October	Call	October	Call	October	Call	October
N5IR	75	*K8UDH	35	N4DT	8	*N6HCN	4
*K5KV	69	*N7YT	28	W3WHK	8	*WA3GM	2
*W9EBE	68	G4ILW	27	K4AHO	7	F5IYJ	1
KC0VKN	63	KB6NU	25	HB9CVQ	6		
N5PHT	54	K5YQF	25	K6DGW	6		
K1ESE	44	I5EFO	16	WA8IWK	4		

\* Personal Best for the Year

First place for the month goes once again to N5IR and second to K5KV and third to new reporter W9EBE.

We had a total of 21 reports and 575 QTX points and that is not bad!

### Medal Standings for the year 2017

Call	YTD Total	Call	YTD Total	Call	YTD Total	Call	YTD Total
N5PHT	1008	DL5DBY	177	N4EEV	56	N6HCN	4
N5IR	650	K8UDH	174	K0DTJ	53	WA3AER	2
K1ESE	482	K4AHO	149	W3WHK	49	G0MGM	2
K5KV	481	N7YT	109	F5IYJ	36	WA3GM	2
KC0VKN	391	N4DT	100	W5JQ	14	KE5RG	2
G4ILW	311	WA8IWK	78	K6HP	11	K3GHH	2
K5YQF	241	HB9CVQ	76	NN4K	6		
I5EFO	233	W9EBE	68	N5LB	5		
KB6NU	228	K6DGW	58	K3TN	4		

Hope to cu on the bands. Interested in a QTX WAS? If so, send me an email. NOTE: If you ever find me with missing reports, numbers or anything on this column please email me so I can get it corrected!

73,

Gary, N5PHT, QTX Manager



# Upcoming CW Operating Events

[Joe Staples, W5ASP](#)

*This list of operating events is intended to provide members with options for using and improving their CW skills in not only the more popular contests but also in other more casual on-the-air activities.*

The RAEM contest is organised by the Union of Radioamateurs of Russia in memory of Ernst Krenkel (1903-1971) a famous polar investigator and radio communications operator (callsign RAEM0. Beginning in 1924, Krenkel was a pioneering member and main radio operator of many Russian Arctic winter research expeditions, as well as a veteran of the Russian Arctic polar station "North Pole-1" and numerous other Arctic marine expeditions.

The event is held on 10 thru 80 Meters, and is CW only. The exchange is a rather unique. It consists of the serial number of the QSO, and the participant's geographical coordinates, degree values only. Check the Rules for the details.

This year the RAC Winter contest will take place the day prior to New Year's Eve. It marks the end of the year's scheduled operating events As with the other Canadian contests the activity will be opened to any and all who chose to join in.

The North American CW QSO Party opens the 2018 schedule, and is one of the more popular events for most CW operators. Certainly one of the most "fun" of all CW events, it's definitely one of the high points of the month. Unfortunately, many operators miss out on one of the best features of this contest, the Team competition. What's special is that there are no distance or club requirements ... just two to five single operator stations combining their scores to give added interest to the affair. You might want to gather up a few other CWOps and see how well your team can do. Teams should be pre-registered at: <http://www.ncjweb.com/cwnaqpteamreg>

The ARRL Rookie Roundup, CW and the ARRL Kid's Day Contest are excellent opportunities for the more experienced operator to encourage both the newer and the younger players to take part in contesting style events. Consider opening your station up to a rookie and then later gather up several of the younger set for some on-the-air "Kids" time. And remember, the more operators who are on the air, the more fun there will be for everyone.

Finally, don't forget "Straight Key Night" on New Year's Eve/Day. It's a day dedicated to celebrating our CW heritage. Participants are encouraged to get on the air and simply make enjoyable, conversational CW QSOs. The use of straight keys or bugs to send CW is preferred. There are no points scored and all who participate are winners.

Although the activity level drops off after the weekends, there's still the CWT and various Sprints to provide a spark of CW activity.

Till next time ... Keep on pounding.

## **DECEMBER / JANUARY EVENTS**

ARRL Rookie Roundup, CW  
<http://www.arrl.org/rookie-roundup>

1800Z-2359Z, Dec 17<sup>th</sup>

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RAEM Contest <a href="http://raem.srr.ru/en/main/">http://raem.srr.ru/en/main/</a>	0000Z-1159Z, Dec 24 <sup>th</sup>
RAC Winter Contest <a href="http://wp.rac.ca/rac-canada-winter-contest-rules/">http://wp.rac.ca/rac-canada-winter-contest-rules/</a>	0000Z-2359Z, Dec 30 <sup>th</sup>
Stew Perry Topband Challenge <a href="http://www.kkn.net/stew/">http://www.kkn.net/stew/</a>	1500Z, Dec 30 <sup>th</sup> to 1500Z, Dec 31 <sup>st</sup>
Kid's Day Contest <a href="http://www.arrl.org/kids-day">http://www.arrl.org/kids-day</a>	1800Z-2359Z, Jan 6 <sup>th</sup>
North American QSO Party, CW <a href="http://www.ncjweb.com/NAQP-Rules.pdf">http://www.ncjweb.com/NAQP-Rules.pdf</a>	1800Z, Jan 13 <sup>th</sup> to 0559Z, Jan 14 <sup>th</sup>
NCCC Sprint	0230Z-0300Z, Dec 15 <sup>th</sup>
NCCC Sprint	0230Z-0300Z, Dec 22 <sup>nd</sup>
NCCC Sprint	0230Z-0300Z, Dec 29 <sup>th</sup>
NCCC Sprint	0230Z-0300Z, Jan 5 <sup>th</sup>
NCCC Sprint	0230Z-0300Z, Jan 12 <sup>th</sup>
NCCC Sprint <a href="http://www.ncccsprint.com/rules.html">http://www.ncccsprint.com/rules.html</a>	0230Z-0300Z, Jan 19 <sup>th</sup>
SKCC Weekend Sprintathon	1200Z, Dec 9 <sup>th</sup> to 2400Z, Dec 10 <sup>th</sup>
SKCC Sprint	0000Z-0200Z, Dec 27 <sup>th</sup>
SKCC Weekend Sprintathon <a href="http://www.skccgroup.com/operating_activities/weekday_sprint/">http://www.skccgroup.com/operating_activities/weekday_sprint/</a>	1200Z, Jan 13 <sup>th</sup> to 2400Z, Jan 14 <sup>th</sup>
NAQCC CW Sprint	0130Z-0330Z, Dec 13 <sup>th</sup>
NAQCC CW Sprint	0130Z-0330Z, Dec 21 <sup>st</sup>
NAQCC CW Sprint <a href="http://naqcc.info/sprint/sprint201707.html">http://naqcc.info/sprint/sprint201707.html</a>	0130Z-0330Z, Jan 18 <sup>th</sup>

73,

*Joe*, W5ASP, Upcoming CW Operating Events



## My Story: New Member Biographies

### Mika, OH6NVC/OH6NC

I am 46 years old. Married and I have four kids. I started this great hobby in 1987 when I was just a 15 years old schoolboy.

I am active on HF-bands. Working DX and contests. I'm member of OH5Z contest team.

I got HSC membership in 1988 and my number is HSC # 1516.

Tnx for CW-ops membership and cu on the air.



### David McNeil W6PHO

At age 13 fell in love with CW and ham radio (in that order), studied for my novice (reading breakfast cereal boxes in code), and built Heathkits. I was hooked for life. My Elmers were in the University of Arkansas club (W5YM); I was a charter member. Soon I was contesting, and as K5GRT I won the CW Sweepstakes for the Arkansas section in 1959. I also qualified for copying W1AW at 20 wpm, in 1958.

I lapsed into inactivity during my college years. When I acquired a family, a Stanford Ph.D. (in European history) and a teaching job (San José State University), I was too busy for the hobby, although I missed it greatly. My half century of QRT included several years living and working in France and Italy.

Then came retirement and a new wife, who provided me with a radio shack. It's a cottage in her back yard among tall pine trees, in Columbia, a rural foothills community outside Sonora, California. I invested in an IC-7600, began making wire antennas, and got back on the air in 2014. My new Elmers are in TCARES: the Tuolumne County Amateur Radio and Electronics Society. With their encouragement I recently upgraded from General to Extra and finished my DXCC (sixty years after my first DX contacts).

I have also set up a station at my San Francisco home (IC-7300 to a 80/40 dipole barely off the roof). It was there that I stumbled into one of K6RB's CWA sessions. When I later signed up for the CW Academy, Will (WJ9B) helped get my copying speed up to well over 25 wpm, and I got over intimidation about CWT speeds. In keeping with my desire to improve my code skills I work only with paddle and ears. I also enjoy the further challenge of operating with only 100 watts and wire antennas (no amp, no keyboard).

I am delighted to be part of the CWOPS club and look forward to QSOs and other activities with you.

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## **Bob Lade W9UCR**

I was a sophomore in high school when a neighbor's son visited his dad. The son was a ham (W7LIV) and arrived with his car loaded with HF gear and an impressive center-loaded whip to boot. What really impressed me was how he loaded the transmitter using a fluorescent lamp held near the antenna and tuning for max brilliance. That experience motivated me to build a small broadcast band transmitter for me and my classmate who lived a block from me and we began our adventures in learning code. I am a keyboard musician and the



rythms of CW came natural and we soon were on a Greyhound Bus off to the big city of Milwaukee, WI and the FCC office for our Novice exams. That was in the spring of 1952. I received my ticket, WN9UCR in June and by that time was ready to go back to Milwaukee for the General class exam. My code speed had exceeded the required 13 WPM and once I got on the air and participated in traffic handling (my first love) it continued to improve.

College got in the way of ham radio and although I operated occasionally from the Marquette University club station (W9ODD) during my undergraduate years it wasn't until I graduated from Carnegie Mellon with a Ph.D. in Electrical Engineering and had my first full-time job that I found the time to get back into the hobby. I secured the call WA4UFQ while teaching at N.C. State., in Raleigh NC and was active in the CW and SSB traffic nets there.

In 1967 I took the responsibility of E.E. Department Chair at Marquette and got my old call back. While in Wisconsin I put together a nice shack with 60' 4-element monoband beam on 20 Meters and was very active in the local CW traffic nets as well as other NTS duties (9RN and CAN). After ten years, the sailing bug hit and we sold our house and everything in it, bought a sailboat and took off for the Islands. I discovered the Waterway SSB net and found it extremely handy for cruising sailors and was Net Control for a while and also VEC coordinator. After we moved off the boat in 1996 I put together a modest station and got back to my first love, CW.

I'm now the manager of the Waterway CW net (daily 7 a.m. ET 7057 kHz) and invite any of the CWops family to join us. You don't need to be a boater to join in. My code speed is modest but participating in the weekly CWT's is helping me get back up to speed. We run the WWCW net at 27 WPM and faster but will QRS for anyone who wishes to check in. I'm looking forward to becoming more active thanks to the CWops organization and when time permits I'm considering helping with the Academy program.

I want to thank my sponsors (W4EDE, KP3W, N1GKE and N5TOO) for helping me join the group. 73 all from sunny S.W. Florida.

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## Chris Blake NX4N

- First licensed in Sept 1971 (age 11) as WN4YFF
- Upgraded to Advanced in 1973 as WB4YFF
- Don't remember when I upgraded to Extra - probably about 1979-1980; changed call after that to NX4N



- Enjoyed so many different sides of our amazing hobby - EMCOM, Public Service, Traffic Nets and NCS, DXing, Homebrewing, VHF...and then the Contest bug bit - HARD!
- From about 1978 I have enjoyed Contesting with Doc N4WW, Duke N4SA, Red K0LUZ, Kevin N4KM and many, many more through the years.
- Have been to a few contest expeditions including HH2WW, PJ1W, VP5WW, C6AWW, J7A (J71W), and /4X, ZP, LU, KP2, KP4 and probably a couple I have forgotten. Such a joy to be on the other end during a big contest - lotts fun!
- I limit my hamming to just a few contests a year to emphasize family time with my wonderful wife and grown children (and first grandchild due Dec 2017!). CW is my primary love and usually the only mode I operate.
- HUGE fan of the Florida QSO Party - have been Single Op + Driver with wife Lili at my side
- Even more crazy, in 2014-2016 FQP's, I have had the honor of sharing a Multi-Multi-Mobile setup with N4BP, K0LUZ, N4KM, W4LT and KR4X. Each of these years we made more than 3500 QSO's (2015 was nearly 5000!) in just 20 hours of operating. It has been a fantastic journey with my friends and a real technical challenge
- My favorite contest is ARRL SS CW - I have been fortunate enough to operate it the past several years at the Tampa ARC, whose members have kindly accommodated me. Even made Top 10 and SE Division Plaque in 2015 - a first!
- Also love Field Day - again the past several years with Tampa ARC, but was also FD Chair for a few years with the Orlando ARC running class 6A.
- At one time I was very, very active at Orlando, was Vice-Chairman of Orlando HamCation; started a Middle School Electronics and Ham club, VE classes and exams, etc.

Want to end by thanking my own Elmers: Kermit, K4XI and Buzz, W4UJL(sk). You both were the BEST Elmers ever for this young teen - thank you so much for your selfless hours helping to teach me, take me to meetings, endlessly fixing my gear and antennas, etc. I have tried to pay it forward :-)

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## **John Silzel N6HCN**

Hi everyone. Since 1982, CW has been the “gravity” pulling me back to radio after orbital apogees of (mostly) QRT raising little kids and getting buried in a career that has gone from biotech R&D to chemistry professor and back, with lots of moonlighting as a jazz violinist. When I was younger I tended to obsess on building gear-- radios and electric violins and stuff--that (and practicing) drew me away from just getting on the air and operating, and this held my CW back. Maybe teaching taught me the joy of communicating, or maybe it was just getting older, I don't know. But several years ago I took a sabbatical from the violin and tried an experiment: tossing my pencil and listening to novels in CW using [gutenberg.org](http://gutenberg.org) and the Linux app ebook2cw. The first novel took me nearly a year, I think. But approaching the code with “jazz ears” and a relaxed focus made a huge difference and I found myself adding QRQ. Around that time Randy, WB6ZFG suggested I read “The Art and Science of Radiotelegraphy” and I discovered my “experiment” was not so crazy. I still fall asleep every night 'reading' a CW ebook-- I never lose my glasses and there's no light to disturb my XYL, Lisa, who also loves CW because I do.

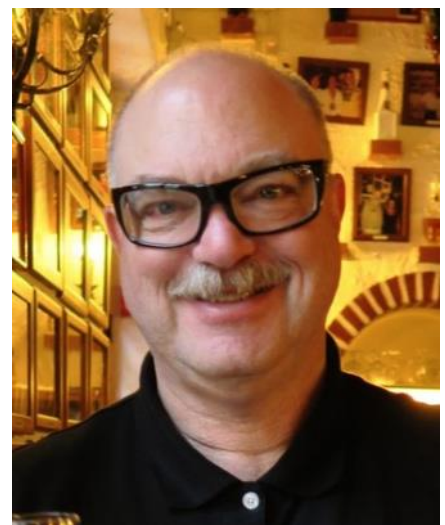


I am a hopeless sentimentalist about my station gear, which is better suited for leisurely CW ragchews than for competitive contesting. I enjoy the CWTs but have to be careful not to break the plastic T/R toggle on my TS520S in the adrenaline frenzy! Try not to laugh at my scores. I'm a “working stiff” and so have to miss weekday openings on 20m, but (if nothing's broken around the house), I'm there weekend afternoons, listening for a well-sent CQ and hoping to snare a QTX about jazz, hiking, boating, chemistry, rural or military life, or whether the grass is really greener outside Southern California (something I have long suspected). Not surprisingly many of my favorite ragchew “victims” have turned out to be CWops members. So bless you all, I'm especially honored to be aboard.

## **Buz Tarlow AC6AC**

I became interested in radio as a child and was given a Dick Tracy CB radio. Living out in the country and not knowing anything I never heard anything. In high school they announced they wanted engineers for the school radio station. I signed up and was given study materials with no explanation that there was a test or any other information. I was told to meet to take the test and then found out it was at the offices of the FCC. I failed, but apparently passed something as I was given a license but not a first class radiotelephone. I worked for a couple of years babysitting the transmitter at the radio station. That started in 1972.

After college I split my time between computers and boating. Got to use radios boating. I was living on a boat at one point and started ex-



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perimenting with antennas for CB. That led me to a ham radio store to buy a HF receiver. They told me buy a transceiver and get my license. I really enjoyed studying for the tests and went from novice to extra, then finally got my First Radiotelephone.

Got my first license in 1991, KC6ZUY. Managed to pass the 20 WPM for the extra, in the early 1990s. FCC assigned AC6AC to me when I passed the Extra test. Got married, had kids and sold all the HF gear. Recently the children moved out and I am back on HF. I was always on repeaters being very active in disaster response. For the last couple of years I have been relearning receiving and sending Morse code. CW Academy has been wonderful. I am still a work very much in progress. But I have made a lot of friends.

I am Life member of CWops, 1911. Life member of ARRL. FISTS, 17843. PAPA System. San Fernando Valley Amateur Radio Club. Independent Radio Club. TCEP.

I am mostly interested in CW at this time, about 90%.

## **Tim Smith W7EEE**

I am thrilled to be a member of CWops, and I thank my CWops instructors, my fellow students and my sponsors. It is an honor to be a part of this organization.

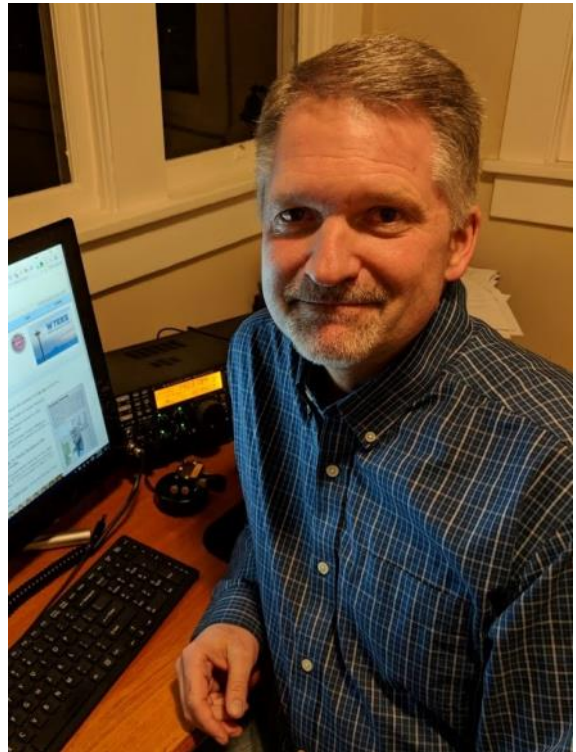
After over 30 years in the hobby, I am still thrilled to hear the sound of my call sign coming back to me -- whether it is from the other side of the world or from a ham just down the street. I know enough about how it works from a science and technology standpoint but still feel like sending radio waves through the air and getting a response is magic.

As a kid, I played with walkie talkies, built a Radio Shack crystal kit, and listened to far-off AM broadcast stations and Cold War-era Soviet propaganda on the shortwave bands. Finally, I realized that it made no sense that I was not yet a ham radio operator, so I taught myself Morse Code at 5 words per minute and passed the written and code tests to become a Novice in 1985. I went on to pass the written Technician and General code tests the next year, passed the Advanced test in the 1990s and finally became a no-code Extra in 2012.

But it wasn't until 2014 that I realized how much fun it could be to send and receive Morse Code. I appreciate that its beauty is in its simplicity: It is the original digital mode, reducing words and ideas into on and off sounds that can be sent with a homebrew QRP rig and a piece of wire.

It took a year for me to re-learn Morse Code well enough to get on the air at 8 words per minute and two more years to pass the three levels of CW Academy. Along the way, I made new friends, learned a lot about Morse Code, ham radio and myself, and discovered a passion for contesting that I never knew I had.

I am thankful and feel privileged to be a part of the group.



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## **Bob Elsinger VE6UX**

Licensed since 1965 as VE6AHY. I spent some time in the Canadian Arctic as a Radio Operator. My callsign there was VE8RE, QTH Cambridge Bay, NWT.

I send logs to EQSL automatically after each QSO. Not interested in LOTW or paper QSL cards anymore. I have begun returning QSL cards to those that manage to send one anyway. Bureau cards have been refused for over 20 years. Don't send one there either.

My equipment here TS940s, TS440S, FTDX 1200, IC 756 pro II. Antennas: Delta loops, Quad loops, Vbeams and longwires.

I only operate CW and Digital modes; 80, 40, 30, 20 and 17.

SKCC # 14347.

