



Vol. 52

March 2002

No. 3

Congratulations to the Ham Class of 2002!

Once again it's time to congratulate the people who completed the ham class and received their FCC ham licenses. But this year I'm going to have to do it from a different perspective, as a non-participating ham, thanks to an injury inflicted on me by one of my horses (he broke my leg in 7 places and I can't drive). But enough of that! If you see or hear these new hams on any frequency, introduce yourself and encourage them to get on the air often. It's always easier to talk to someone you can put a face on. Encourage them to attend the ham club meetings and also to participate in various nets. Here are the new hams, all of which have earned Technician class licenses:

KCØMIX Sandra E Beardsley

KCØMIP L D Harris

KCØMIU Kristie A Thill

KCØMIV Floyd D Edwards

KCØMIR Patrick W Kelly (Tech Plus)

KCØMIS Charles G Uhler, Jr

KCØMIT Nicholas C Fowler

KCØMIQ Carol S Klessner

KCØMJM Rebecca Wilkerson

KCØMIW Jimmy D Harris

It is also time to say a GREAT BIG **"THANK YOU"** to Frank McNally KFØWF, and of course his wife Barb McNally NØBAM, for all the time and effort they spend in offering these classes to prospective hams in the Colorado Springs area each year. And to all the hams that did come out and give their support to the classes. I've heard some of the new hams on the radio myself, and they had some really great impressions of Frank and the classes. Thanks also to the VE team that came out to give this special licensing exam for these new hams.

Congratulations One and All !!!!

Once again - "GREAT JOB DONE" !!!

de Linda Hedges -KBØRKW, PPRAA Technical Education Liaison

Meeting Location Changed Again This Month (But Same as Last Month)!

We'll be at the Leon Young Service Center again, 1521 Hancock Expressway, in the Pikes Peak Room on the 2nd floor. It is handicapped accessible. Take I-25 to Martin Luther King Bypass, proceed east on MLK Bypass to Union; south on Union Boulevard to the first right turn which is Hancock Expressway; turn right and within 1 to 1 ½ blocks you will see the Leon Young Service Center on the right side. Turn into the North driveway (the one without the stop light) and park; enter into the north entrance of the building. Or take Hancock south across Fountain Boulevard and proceed approximately 1 ½ miles south and you'll see the Leon Young Service Center to the left. If you reach a stop sign that is Union you have gone too far, turn around and come back a block. Turn into the north driveway and park; enter into the north entrance of the building.



March Program is on Colorado Severe Weather, by Tom Magnuson KBØZWX

Meetings Our monthly meetings are normally held on the 2nd Wednesday of each month at 7 pm at Mount Calvary Lutheran Church, 1318 N. Circle Drive, about 1/2 way between Platte Ave and Constitution Ave on N. Circle. Our Annual meeting is in October. Check the web site for any changes.

Regular License Exam Sessions

Our ARRL VEC test sessions are on the 2nd Saturday of even numbered months at 0900 at the Denver Technical College, 3245 International Cr, across from Memorial Park. Contact Erik KGØXE for details.

Examinees need to bring (1) \$10, preferably a check or money order payable to ARRL/VE; (2) picture ID; (3) the signed original and a copy of your current amateur radio license and CSEs you have (we keep the copies); and (4) a pen, pencil, and calculator if needed. Memory calculators will be checked.

PPRAA Web Page See it at <http://www.qsl.net/ppraa/>. Thanks to Rick Brown KØSU, our webmaster and reflector maintainer.

Get on the PPRAA E-mail Reflector Stay on top of new or short-fused developments. Send e-mail to majordomo@qth.net; within the body type "subscribe ppraanet".

PPRAA Simplex Net All amateurs are invited to join us on Thursday evenings at 1900 on 146.58 MHz simplex for our club net. Get the latest club and regional happenings!

Officers and Directors

President	Rick Brown	KØSU	531-9423	k0su@arrl.net
Vice-President	Kate Ellis	KCØEGJ		
*Secretary	Mike Allen	NØMIK	594-4896	n0mik@arrl.net
*Treasurer	Ron Deutsch	NKØP	593-8352	nk0p@arrl.net
Board Member	Bob Wogaman	KBØB	531-0511	kb0b@worldnet.att.net
*Board Member	Jerry VerDuft	ADØA		verduftj@earthlink.net
*Board Member	Tom McDaniel	NØNTX	570-1465	n0ntx@amsat.org
Board Member	Aaron Pelouze	KD6FLM		
Past President	Sid White	K4ARM		
Ø-Beat Editor	Rob Roller	N7LV	282-0204	n7lv@amsat.org

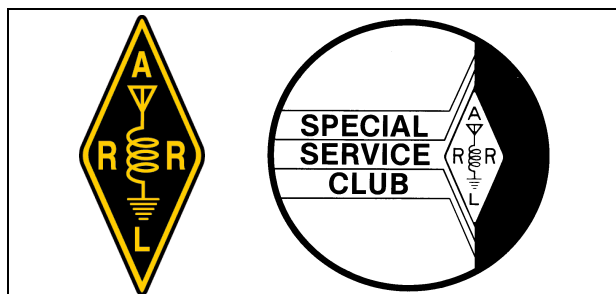
* Indicates this Director is completing the second year of a two-year term

Committee Chairs & Other Contacts

Activity	Sean Mullally	NØCT		
Auditing	Kate Ellis	KCØEGJ		
Asset	Mike Stansberry	KØTER		
Historian	Roger Eslick	NØVR	272-9036	
Interference	Bill Petty	NØNJX	532-1439	
Membership	Les Borst	KCØNC	634-3995	
Programs	Rick Brown	KØSU	531-9423	k0su@arrl.net
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Hamfest	Bob "Rails" Ryals	KIØGF	265-9950	rryals@pcisys.net
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ARES Liaison	Mike Stansberry	KØTER		
ARRL Section Mgr	Jeff Ryan	NØWPA	260-6826	n0wpa@arrl.net
CCARC Liaison	Moe Pierce	WBØRTF		
RACES Officer	Tony Dal Lago	KC4VMB	575-8400	kc4vmb@qsl.net

Upcoming Club Programs

Mar	Colorado Severe Weather by Tom Magnuson KBØZWX
Apr	PSK-31 by Shel Radin KFØUR



Articles for the Ø-Beat Deadline for articles or ads for the April issue is Mar 25. Submit articles by e-mail, US Mail, telephone or in person to the editor. Editor reserves right to correct for readability, grammar, spelling, punctuation and length.

Nonprofit Organization The PPRAA is a federal 501(c)(3) nonprofit organization and welcomes all contributions. Your contributions/donations may be tax-deductible.

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Club and Local News

President's Corner *de KØSU Rick Brown*

I would like to thank Walt, WØCP for coming to the meeting last month to present the certificate from the ARRL for the PPRAA's affiliation with the ARRL for 50 years. There certainly aren't many clubs that have that honor and you can all be proud of the things the club has done over those years.

I also want to thank Mark Baker KGØPA for his presentation. I hope that you will all follow Mark's lead and write to your Senator and Congressman to express your concerns about the various issues facing ham radio today. Also, Mark can use your help in presenting issues to the state legislature. If you have not done so, you can contact Mark at kg0pa@arrrl.net to offer your assistance.

At the last meeting I had a "help wanted" sign up for some assistance with club items. Two folks have stepped up to help the club web site and the e-mail reflector. More information will be out on that soon. We still need someone to take on the duty of Publicity Chair.

Speaking of helping the club, I know that Bob, KIØGF will be looking for more help with the swapfest. I am sure he will be telling you what we need so I won't go into detail here. Please help us out if you can. Our swapfest has been one of the biggest along the Front Range and we want to make sure it continues to be that way.

Please remember that the March meeting will again be at the Leon Young service center. Everyone commented on how nice the meeting room was last month. Come join us for this month's meeting. 73 *de Rick*

Division Convention Planning Continues *de ADØA Jerry VerDuft*

The Convention Committee met on Feb 9th and ratified the Bylaws for a non profit corporation drafted by ADØA; the corporation will be known as HAMCON COLORADO, INC. ADØA was elected as the Chairman of HAMCON COLORADO, INC. with Board of Directors being NØWPA, KØGS, KØMP, and KCØHVD. The Committee then reviewed options for a location for the 2003 Convention and resolved that it be held at the Estes Park Conference Center/Holiday Inn Rocky Mountain Park in Estes Park CO on May 30 - June 1, 2003. This is pending approval of the ARRL RM Division Director, WØCP. All sub-chair positions are now filled except for Security and Wouff Hong. The PPRAA will be responsible for both exhibits and prizes, plus Joanie KCØGMI will make the arrangements for the Saturday evening convention banquet. If you are interested in participating in the convention

planning, especially in regards to exhibits and prizes, please contact the club President, KØSU. 73, Jerry ADØA

Ham Radio Presentation *de WV7T Mike Anderson*

A presentation on ham radio will be held the end of April or beginning of May at St. Francis of Assisi parish. There is a need for volunteers to help with equipment/organization displays, refreshments, chair-table set up, audiovisual operation, video tape and digital picture photographers, and parking control (arrival only). None of the jobs require a great deal of work but is more than I can do by myself. With help I plan to follow up this presentation with a class for the Technician License.

The schedule will be:

7:30-8:45 Display setup

9:00-10:30 Presentation

10:30-12:00 Guests visit displays and talk to hams

12:00-13:00 Takedown and cleanup

Display materials produced can be stored at the parish ready for presentations. With your assistance this will be the beginning of many presentations in the Colorado Springs area. If you can lend a helping hand please contact me. 73, Mike Anderson WV7T, wv7t@aol.com, 634-7168, 2815 Main Street, CS, 80907-6011

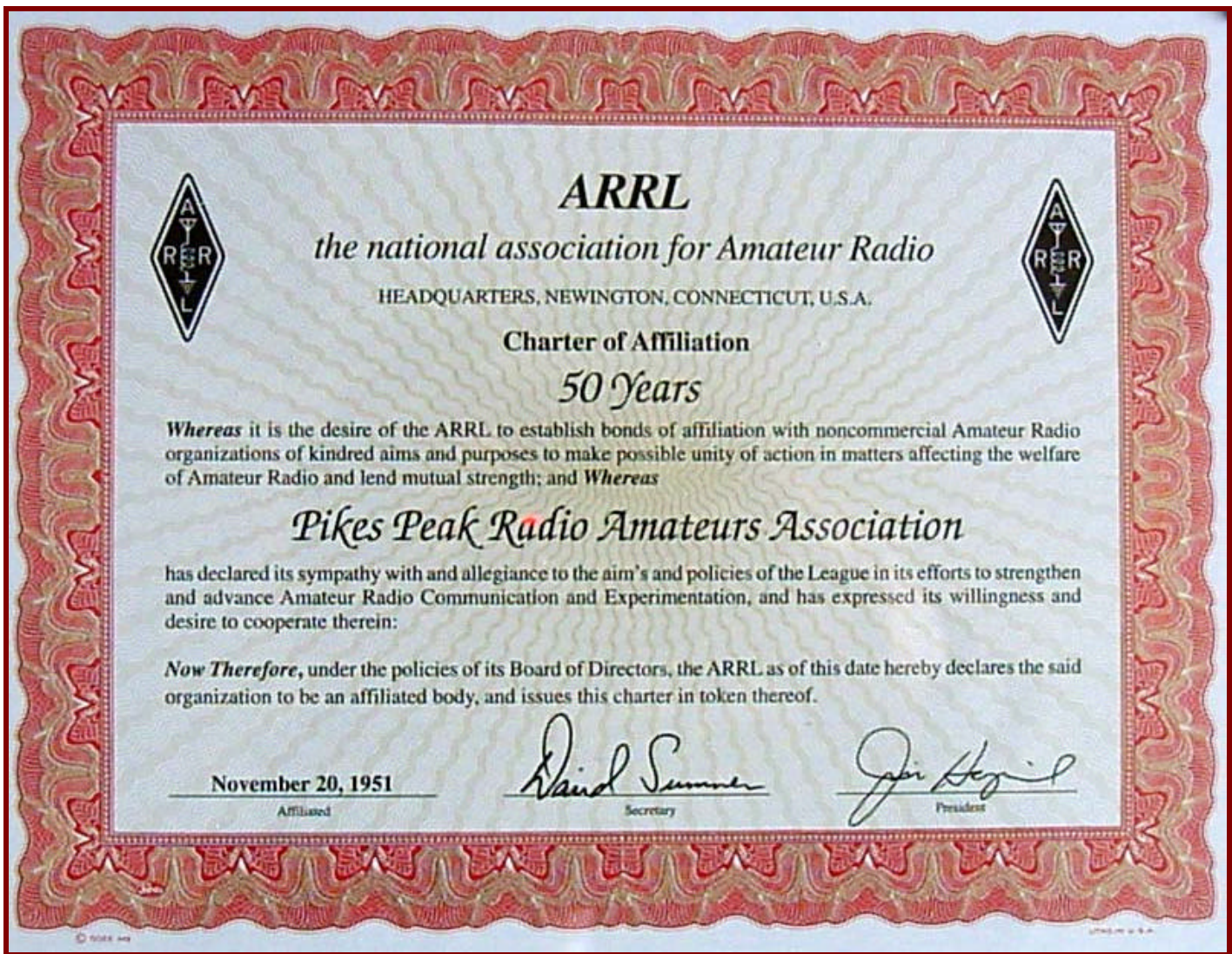
How to Fight City Hall

At the February meeting, Mark Baker KGØPA gave an excellent presentation regarding his three goals for his legislative push: relief from unreasonable covenants, protection from loss of frequency spectrum, and to get PRB-1 into the CRS. After the inspirational talk, Mark handed out a letter for us to use as a template for our own letter, and addresses to which to send them. Here are the addresses. The sample letters begin on page 8. Get your letter written now! Send to:

Honorable Ben Nighthorse Campbell, 212 N Wahsatch Ave, #203, Colorado Springs, CO 80903, (719) 636-9092; also 380 Russell Senate Office Building, Washington DC 20510 (202) 224-5852

Honorable Wayne Allard, 228 N Cascade Ave, Suite 106, Colorado Springs, CO 80903 719-634-6071; also 525 Dirksen Senate Office Building, Washington DC 20510 202-224-5941

Joel Hefley, Colorado 5th Congressional District, 104 S Cascade Ave, Suite 105, Colorado Springs, CO 80903 719-520-0055



At the February meeting, Walt Stinson WØCP, the Rocky Mountain Division Director, presented this certificate to the club in honor of our fiftieth year of ARRL affiliation. Below, Rick Brown, KØSU, president, accepts the certificate from Walt.



Public Service & Emergency Communications

The PPRAA is an ARRL Special Services Club, but it is not an emergency services club itself. The PPRAA supports all amateur radio involvement in public service and emergency communications in any way it can, including reporting activities happening in the region. These columns are based on available knowledge of the editor, and the opinions expressed are not necessarily the opinions of RACES, ARES, Skywarn or any other organization, or their leadership. Logos used with permission.

RACES



<http://www.qsl.net/epcraces/>

VHF Net Tuesdays at 1930 on 146.76 MHz
CMRG repeater

Tony Dal Lago KC4VMB, RACES Officer

EPCRACES has some new staff officers: Rick Bay KCØAEB is the new deputy RO, Jeff NØWPA has moved from training into the operations position. Training is vacant, as is net coordinator. Volunteers are appreciated..

ARES



<http://www.qsl.net/ppares/>

VHF Net Tuesdays at 1900 on 146.97 MHz
PPFMA repeater

Wes Wilson KØHBZ, EC

The tentative schedule of public service events for this summer is: Apr 13: Skywarn Training; Apr 27: March of Dimes WalkAmerica; Jun 9 Garden of Gods 10 Mile Run; Jun 21-23: Field Day; Jun 23: Starlight Spectacular; Jul 7: Roundup Run; Aug 17/18: Pikes Peak Ascent & Marathon.

Meeting Location Changed Again This Month!

Effective May 1, after over 10 years of no change, there will be new criteria for the ARRL Public Service Honor Roll. They were revised based upon comments of many hams active in public service operations, and have been widened from what was primarily centered around the National Traffic System. The more you participated in handling traffic, checked in to nets, etc, the more points you earned towards the minimum of 70 per month to make the honor roll. The new criteria are shown below. Note the inclusion of the time spent participating in a public service event, including the planning of the event, as well as participating in the emergency responses, even if not participating as the net control station.

- 1) *Participating in a public service net, using any mode. --1 pt per net session; max of 40.*
- 2) *Handling formal messages (radiograms) via any mode. --1 pt for each message handled; maximum 40.*
- 3) *Serving in an ARRL-sponsored volunteer position: ARRL Field Organization appointee or Section Manager, NTS Net Manager, TCC Director, TCC member, NTS official or appointee above the Section level. -- 10 pts for each position; max 30.*
- 4) *Participation in scheduled, short-term public service events such as walk-a-thons, bike-a-thons, parades, simulated emergency tests and related practice events. This includes off-the-air meetings and coordination efforts with related emergency groups and served agencies. - 5 pts per hour (or any portion thereof) of time spent in either coordinating and/or operating in the public service event; no limit.*
- 5) *Participation in an unplanned emergency response when the Amateur Radio operator is on the scene. This also includes unplanned incident requests by public or served agencies for Amateur Radio participation. - 5 pts per hour (or any portion thereof) of time spent directly involved in the emergency operation; no limit.*
- 6) *Providing and maintaining a) an automated digital system that handles ARRL radiogram-formatted messages; b) a Web page e-mail list server oriented toward Amateur Radio public service -- 10 pts per item.*

Amateur stations that qualify for PSHR 12 consecutive months, or 18 out of a 24 month period, will be awarded a certificate from the ARRL upon written notification of qualifying months to the Public Service Branch of Field and Educational Services at ARRL HQ.

Articles

A Quick Primer on S-Meters

de WØRW Paul Signorelli & NA5N Paul Harden

[This note on S-meters appeared recently on the e-mail reflector.]

One S-unit is a change in signal strength POWER of 6dB, or a 3dB change in VOLTAGE, as measured at the receiver antenna terminals.

VOLT POWER

S9+20dB	500uV	= - 53dBm
S9+6dB	100uV	= - 67
S9	50uV	= - 73
S8	25uV	= - 79
S7	12.5uV	= - 85
S6	6.2uV	= - 91
S5	3.1uV	= - 97
S4	1.6uV	= -103
S3	0.77uV	= -109
S2	0.39uV	= -115
S1	0.19uV	= -121dBm

An S-METER is calibrated by connecting a signal generator to the antenna terminal and setting the output power to 50uV, or -73dBm, and adjusting the S-meter calibration pot for a reading of S-9. Since the S-meter is usually derived from the receiver AGC line, it *is* relatively linear from about S3-S4 and upward (since a good AGC usually "kicks in" around -100 to -105dBm). This linearity is also due to the diodes used for the AGC detector, once they are conducting in the linear region (again, around S3-S4). Statements that "S-meters are totally worthless" or "a change in 2 S-units means nothing" are thus actually quite incorrect. An S-meter *is* a fairly good RELATIVE power indicator for received signal strengths and noise levels.

SO WHAT-THE-HECK IS AN S-METER GOOD FOR?

The purpose of an S-meter is not to provide any absolute indication of power or voltage, but a RELATIVE indication between received signal strengths ... such as between two different signals, or between a signal and the "noise floor" of the band.

Example: On 40M, typically the "noise" will be S4, or about -103dBm. If your receiver has an MDS (minimum detectable signal) of -133dBm, it means you're losing 30dB of your dynamic range to the noise! (133-103=30dB).

In this case, the S-meter is more-or-less giving you an absolute power DIFFERENCE between it's MDS and the noise floor, in dB.

Example: A station claims his beam antenna has 12dB gain over his dipole. So he switches between the two and asks you for an "A-B" comparison. His signal goes from S7 to S8 ...a 6dB change. That ain't 12dB! 12dB should have shown 2 S-units of change. (I'm assuming his beam antenna *was* properly pointed at you -hi).

Likewise, YOU are comparing two antennas at your shack. You are LISTENING to a QSO in progress, switching between the two antennas. One antenna causes the S-meter to rise about 1/2 S unit. Well, that's 3dB, and that's not bad for most wire antennas. Or ... you are switching between two antennas and notice that the noise seems to be much less on one, in fact, the S-meter drops from S4 to S3. You have a problem with the antenna with the higher noise. If the noise drops 2 S-units, you have a BIG problem with that antenna!

Obviously, you want to use the antenna with the lowest noise, because an S5 signal will be an S5 signal on the same receiver. The difference, is if one antenna has an S4 to S5 noise, you'll be digging that S5 signal "out of the mud." With an antenna at S3 noise level, that S5 signal now has a 2 S-unit (12dB) improvement in signal-to-noise, and will obviously be much easier to work.

An S-meter also makes it convenient to make internal tuning adjustments to your receiver, such as peaking any IF cans, filters, etc. You can tune to a carrier or QSO in the S8 range, then tune above and below and mark the frequency where the S-meter drops 1 S-unit (6dB), 2 S-units (12dB), etc. to make a rough graph of your overall selectivity/filtering of your receiver. If your receiver claims the RF amplifier, when kicked in, provides 12dB of gain, well, you should clearly see about a 2 S-unit change. Or if the 3dB filter BW is 300Hz, then you should clearly see a 1 S-unit change over about twice that, huh? You can do the same with a DVM on your audio output, but an S-meter sure makes it more convenient, and quite easy to verify some of the specs and claims the rig/kit vendor is claiming. Or to check for a change in performance later on for troubleshooting purposes. It is ALWAYS beneficial to do some of these basic measurements when you put a new rig on-line, so you have a baseline to check performance later on if troubles begin. A simple S-meter is all you need to record some of these important specs.

WHAT ABOUT THIS QRO vs QRP THING?

You have to QUADRUPLE (X4) your signal to DOUBLE your signal strength at the receiver end. Likewise, if you drop your power by one-fourth, your received signal strength will be one-half less, or 1 S-unit. You are working a station running 100W and he is S8.

If he drops his power to 1/4th, or 25W, his signal strength should drop about 1 S-unit, or to S7. If he drops another 1/4th, to about 6W, he should drop another S unit, or to about S6. Therefore, the difference between 100W and 5W QRP is about 2 S-units. Big deal. Dropping to 1W is about another S-unit, then to 250mW another S-unit, etc. OK, now you're getting down into the S4 noise level on 40M. Now you're hoping the guy on the other end has only a S3 noise level on his end :-)

Computer Performance Fundamentals *de KIØPE Seth Bardash*

[Ed: Part II of a multipart article. Seth's e-mail address is seth@integratedsolutions.org if you want to contact him.]

Today's processors have between 256K and 512K of internal cache. Cache size is not the only influencing factor in system performance. If processor "A" can execute more instructions *in one clock cycle* than processor "B", then processor "A" is said to provide better performance at the same clock speed. Table 1 shows a comparison of three of the most popular processors.

The best overall performance of a processor is achieved by:

- 1) Maximizing the speed and size of on-chip cache.
- 2) Maximizing the number of instructions executed in one clock cycle.
- 3) Maximizing the processor clock speed.

- 4) Maximizing the processor's access to system memory.

If the internal architecture and cache sizes were the same on all processors (which they are not) the next factor that effects performance is the processor's connection to the memory. All of today's systems use a chip called the North Bridge to connect the processor to memory, graphics (usually an Advanced Graphics Port - AGP) and to the other parts of the system. The connection from the processor to the North Bridge chip is called the Front Side Bus (FSB).

Memory Architecture and Performance

The North Bridge chip controls the memory. When the processor requests the data at a given memory location, the North Bridge chip does the actual memory access. Dynamic Random Access Memory (DRAM) is constructed like a spreadsheet. Each location has a row address and a column address but the DRAM chip only has one set of address input pins. This requires splitting the address input to the chip. DRAM requires three stages to access a given piece of information:

- 1) Row Address Strobe - Time to strobe the row address on the DRAM address pins
- 2) Row to Column Address Delay - Wait Period for changing the address information on the address pins from the row address to the column address.
- 3) Column Address Strobe Time - Time to strobe the column address on the DRAM address pins

Different memory types have different performance capabilities. The standard memory types in use today

Table 1: Processor Architecture/Technology Comparison

Feature	AMD Athlon XP/MP	Intel P4 Xeon	Intel Pentium III
Smart MP Technology	Yes	No	No
QuantiSpeed Architecture	Yes	No	No
Integer pipelines	3	4	2
Floating point pipelines	3	2	1
Full x86 decoders (*2)	3	1	1
1.1 cache size	128 KB	12K μ op + 8KB Data Cache	32 KB
1.2 cache size	256 KB (on-chip)	256 KB on chip	256 KB on 1.1 GHz freq and lower, 512 KB on 1.2 GHz
Total on-chip full-speed cache (*1)	384 KB (exclusive)	256 KB (inclusive)	256 KB on .1 GHz freq and lower, 512 KB on 1.2 GHz (inclusive)
System bus speed (*4)	266 MHz	400 MHz	100 MHz or 133 MHz
3D enhancement instructions	3Dnow! Professional	SSE2	SSE
Single-precision FP SIMD	Yes	Yes	Yes
4 FP operations per clock	Yes	Yes	Yes
Cache/prefetch controls	Yes	Yes	Yes
Streaming controls	Yes	Yes	Yes
DSP/comm. Extensions	Yes	Yes	No

have the theoretical maximum performance capabilities as shown in Table 2:

Memory of the same type can have differing performance depending upon how fast the DRAM chips can be accessed on a DIMM (Dual Inline Memory Module). Common speeds for PC-133 SDRAM

Table 2: Theoretical Maximum Performance Capabilities:

PC100	PC133	PC1600	PC2100	PC2700	PC800	PC800
SDRAM	SDRAM	DDR	DDR	DDR	1 Ch	2 Ch
800	1.1	1.6	2.1	2.7	1.6	3.2

(Synchronous DRAM) are CL3 or CL2. CL3, a 3clk - 3clk - 3clk access or CL2 a 2clk - 2clk - 2clk access. Clearly CL2 memory provides better performance. Double Data Rate (DDR) memory can transfer data on both the rising edge and the falling edge of the clock signal. DDR memory is rated at CL3, CL2.5 and CL2 speeds. Again, the CL2 rated memory provides better performance.

The above explanation is over-simplified. SDRAM only requires the first access to contain all three parts of the memory cycle. After the first access, any other accesses in the same column only require the row address to be strobed. A typical CL2 access of four consecutive locations on the same memory page would really be a 6-1-1-1 clock access or 9 clocks for 4 locations. *[To be continued.]*

Letter Templates to Your Representatives

(See Article on Page 3, "How to Fight City Hall")

Dear _____,

I'm writing to ask for your assistance in a matter that is important to our Congressional District.

In our Congressional District and in Colorado, the Amateur Radio Service provides emergency communications where existing communications may be disrupted by flood, hurricane, tornado, earthquake, brushfire, terrorist attack, or other disasters. FEMA, the American National Red Cross, the Salvation Army and other groups have letters of agreement with our national association, the American Radio Relay League (ARRL), to cooperate when disaster strikes. Both Congress and the FCC have repeatedly noted the strong Federal interest in promoting Amateur Radio communications (reference P.L. 103-408 and P.L. 100-594).

But an unexpected anomaly in a growing number of private land use agreements is making the communications capability offered by Amateur Radio unavailable in a growing number of communities.

Because of certain "boilerplate" clauses in real estate purchase agreements in some new housing developments, legitimate licensed Amateur Radio operators are being denied the right to put up even the most unobtrusive antenna, sometimes, even if the antenna is completely hidden!

Last year the ARRL filed an Application for Review (RM-8763) with the Federal Communications Commission requesting that the FCC clarify its "reasonable accommodation" policy regarding private land use regulation of Amateur Radio antennas. So far the FCC has not acted promptly or favorably in this matter. As one of your constituents who is an Amateur Radio licensee, I am requesting your assistance and possible intervention.

Here's why: In 1985, the FCC balanced the interests of town land use authorities to maintain local zoning by requiring them to exercise "reasonable accommodation" to requests from Amateur Radio homeowners to install some form of antenna on their own property, thus acknowledging limited federal interest in permitting Amateur Radio licensees to set up antennas, reference 47 C.F.R 97.15(b).

The policy has been very successful and has generally led to tasteful yet effective installations as towns and residents work together reasonably. But so far, the FCC has been reluctant to apply that same national policy to private land use regulations. The ARRL's requests that the Commission revisit the issue and reconsider it have repeatedly been denied.

The ARRL's request is modest and does not expand existing policy. It would require only that the homeowner associations make "reasonable accommodation" (the same flexible and not intrusive standard required of towns) for antennas for Amateur Radio homeowners in subdivisions. It intrudes far less on the authority of planned communities than do other Federal policies governing telecommunications facilities, and recognizes the legitimate concerns of homeowners associations.

Yours very truly,

_____ (Your name, amateur callsign, address, etc)

This is the letter that Mark Baker KGØPA provided for us at the Feb club meeting. Due to lack of room, Jerry's (ADØA) letter isn't in the Ø-Beat, but will be forwarded to the webmaster for posting there.

Club Business

Board Meeting Minutes *de NØMIK Mike Allen, Secretary*



The Feb 18, 2002 PPRAA Board of Directors (BOD) meeting was called to order at 7:00 PM by Pres Rick Brown KØSU at his home. Others present were Rob N7LV, Bob KBØB, Jerry ADØA, Aaron KD6FLM, Ron NKØP. Absent: Tom NØNTX, Sid K4ARM, Kate KCØEGJ, Mike NØMIK. There was concern from some members about the club roster appearing in the *Ø-Beat* on the web. Rob stated that the roster will not appear in the web version. Members downloading the *Ø-Beat* can get a roster via e-mail or can get a copy at the club meeting. Rick will also modify e-mail addresses in the web roster so they can't be as easily harvested by web-bots, by inserting extra characters, similar to what has been done on the PPARES web roster. Rick KØSU is looking for a new webmaster. Someone has offered to take over the e-mail reflector. We need someone to represent us at the Division convention planning meetings. See Rick to volunteer. Hamfest: Dennis NØABC handed out flyers at ARA hamfest. No prizes in hand, so we can't sell raffle tickets. Rob N7LV will send in the check for the gym at Lewis-Palmer H.S. Aaron KD6FLM suggested hamfest proceeds be used for a portable HF radio for emergencies by ARES/RACES. Club equipment: Numerous radios have been donated to the PPRAA. Some equipment originally planned for the American Red Cross will not be donated due to a change in leadership and the unknown certainty of ham radio's role in the local chapter. Some equipment was donated to the PPRAA with the stipulation that it be used for educational purposes. That equipment will be made available to the Cheyenne Mtn High School radio club being formed. Equipment still needs inventory tags applied. There is uncertainty about how to retrieve a donated beam, as it is mounted atop a tower, and may not be cost effective to remove it. Rob commented that there is no list of equipment available to the board identifying what has been donated to the club, its value, and its disposition. He suggested that Sid prepare such a list and provide to the board, specifically the Secretary, so its available in case of an audit. Jerry ADØA commented that February program was excellent, and provided a copy of the letter that he sent to his representatives. It will be in the *Ø-Beat* for all to use as a template. The letter provided by Mark Baker KGØPA is published in the *Ø-Beat*. Future programs: March: Tom Magnuson KBØZWX on Colorado Severe Weather; April: Shel Radin KFØUR on PSK-31; May: Nick Powell NH6ON on ham radio from Antarctica. Ron NKØP suggested for future programs a kit-building project for the

anemometer in a recent QST issue. Ron also mentioned our membership payment to the CCARC not being cashed yet. Are we a CCARC member or not? Bill Pierce KDØJU and Rick KØSU are researching. **The March board meeting will be at Ron's NKØP home.** Meeting adjourned at 2000. *Submitted by Rob N7LV on behalf of Mike Allen NØMIK, Secretary*

Treasurer's Report *de NKØP Ron Deutsch, Treasurer*

For January 2002, income: \$669.32, expenses: \$95.00. New balance \$5,766.54. Thanks to all those that have been making donations above and beyond the regular dues.

General Meeting Minutes *de NØMIK Mike Allen, Secretary*

President Rick Brown KØSU called the meeting to order at the Leon Young Service Center at 7:04 PM. 47 members and guests signed the register. After introductions a motion to accept the minutes of the last meeting was made. Kate KCØEGJ mentioned that the *Note* regarding meeting location should have read "... on Wednesday." With this correction, the minutes were accepted unanimously. Rick KØSU gave the Treasurer's report in Ron Deutsch NKØP's absence. The club has approximately \$4,000 in its various accounts. Membership Chairman Les KCØNC reported that membership renewals are lagging and that 78 members from last year still have not renewed their membership. Programs Chairman, aka President Brown, highlighted the coming programs. March's program will be a presentation by Tom Magnuson KBØZWX from the Pueblo Weather Bureau; in April the program will be a presentation on PSK-31. The swapfest honcho, Bob KIØGF was next. Bob reported the brochures are in as are the two main prizes, Yaesu's FT-100D and VX-1R. He mentioned that this is an ARRL sanctioned swapfest and that he is looking for a publicity chairman. Swapfest planning meetings are held the last Saturday of every month at the CSPD Falcon substation on Goddard St. Rick noted that Frank KFØWF's Technician class was over, and that out of eight, three had passed the CW portion of his class. Rob N7LV, *Ø-Beat* editor, announced the swapfest raffle tickets are in. Prices for tickets are; 40 for \$20, 15 for \$10, 6 for \$5, and 1 for \$1. He also welcomed contributed articles for the *Ø-Beat*. Wes KØHBZ, ARES chairman, announced the beginning of the public service event season with 12 "for sure" events and 2-3 others as "possibles". He outlined 2 events to be worked in conjunction with the Army's Medical Corps at Ft Carson which would need both phone and digital communications

between Colorado Springs and Buckley Air National Guard base in Denver. Moe WBØRTF, the CCARC chair and Bud KØGS, CCARC official, mentioned the CCARC meeting to be held in Keystone about April 20th. Speaking for RACES, Fred KCØFRM said that RACES was in need of stations to serve as Net Control and someone to serve as training coordinator. Next, Rick KØSU announced that the club is looking for a webmaster, an e-mail reflector honcho (who could be the same as the Webmaster), a publicity chairman, and a representative to the planning committee for the 2003 ARRL Division Convention. Rick also mentioned that Liz Deutch NØTUK was recovering after her accident and Kathy NØYTQ was also doing well. Finally, he announced the February Board of Directors meeting would be held at Sid K4ARM's. Announcements began with Moe WBØRTF mentioning the Lunch Bunch would meet at the Country Buffet in Citadel Crossing this coming Friday at 11:00 AM. Ron KCØGLP reminded us of the club simplex net on Thursday evenings at 1900 local on 146.58 MHz, and Wes KØHBZ announced a VE session on March 2nd at 10:00 AM in Woodland Park at the Senior's Center. Dan KBØPPM said that Cheyenne Mountain HS was still looking for equipment, especially HF, 100 ft of coax, and an antenna rotor with controller. He is also beginning to work on this year's JOTA and is accepting help from any interested volunteers. Dick K2LCT mentioned the upcoming Aurora Repeater Association swapfest. No date was given, but talk-in would be on 147.15. Finally, Mike WV7T detailed his amateur radio program for Scouts and said he was looking for volunteers to help with the many facets of the program. The classes will be ready to present about the end of April and run for approximately 3 hours on a Saturday morning. Old business began with Jerry ADØA presenting an update on the 2003 Division Convention. A corporation to organize the convention, HAMCON Colorado Inc., has been set up with Jerry as the Chairman. By laws are in place as are 5 board members. The convention will be held in Estes Park May 30-Jun 1. Wes KØHBZ volunteered to run the VE session, and Rick KØSU will organize the door prizes. Jerry noted that the convention needs more clubs involved. Next, Dick K2LCT announced an Edge of Space Sciences (EOSS) balloon launch on Feb 23 from Meadow Lake airport around 9:00 AM. The balloon will carry a cross-band repeater and attempts will be made to contact stations working through another EOSS balloon launched from AZ the same morning. There was no new business. Mike WV7T presented the hammy to John NØQJS. Walt WØCP, ARRL Rocky Mountain Division Director, talked briefly on the league's frequency defense efforts, and presented the club with a plaque for 50 years service. After the break and door prize drawings, Mark Baker KGØPA, CO state Government Liaison, presented a well-received talk on the top three priorities in the defense of amateur

radio. The meeting adjourned at 9:00 PM. *de Mike Allen
NØMIK, Secretary*

Membership Report

de KCØNC Les Borst, Membership Chairman

Please welcome these New Members

LARRY FARMER	WA6GZC
PATRICK KELLY	
RACHAEL LINK	KC0MAA
ROBERT LINK	KC0LGY
MICHAEL PROCTOR	KB0IAP
ROBERT SAYERS	W0OFA
FRANK SHELTON	N0FS

Members who need to see the treasurer

DAVID HAMULA	WB0FHO
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Goodbye to the following members.

ELEANOR BELLAMY	KB2BAJ
WILLIAM BELLAMY	WB2EVR
TOM BENTON	KN6PJ
RONALD BERKLEY	AB0NS
DAVID BINA	N7IAN
RENAY BOYES	KA0ROY
JEFF BOYES	N0JLH
PAUL BRACH	N5KN
CHARLES BRETT	KC0APU
BRIAN BROWN	KB0MFA
AUSTIN CLEIS Jr.	W6RML
SUZANNE DICKERSON	WX0WX
DOROTHY DUBON	KB0SHJ
DONALD DULEY	KC0GBG
ROGER ESLICK	N0VR
ANDREW FERRARA	WA0IBS
ELIZABETH FERRARA	KC0DMQ
CAROL FERRARA	KC0CYU
ROGER FRENCH	KB0RLF
TROY L. HANSON	WB0LMH
LEONARD HODGES	KC0CYV
DAN HOLMES	NH6EU
DALEAN JAMES	KA0TSA
CAROL KELLEY	
CHUCK KELLEY	N0XWW
KEN KNIGHT	N0YGM
CURTIS KNOTT	KB2ZVX
KIM KNOTT	KC0DGK
BILL LARSON	KG0XW
ANITA LONG	
DAVID MARSHALL	AB0JY
NORMAN MILLER	N0ENN
PHIL PEARSALL	KC5LXC
GENE PFEFFER	K0JHH
EMIL H. ROCK	KC0DMU
IVAN RYMES	K0VPV
VERNON SALLIE	KI0RA
CHARLOTTE SCHARER	N0VAN
RICHARD SCHARER	N0UVT
EMANUEL SMITH	KC0GUH
ALFRED SONTAG	KA0WIE
KIM KYEONG SOOK	KC0IST
JONATHAN SPIEKER	KC0HPX
ROGER G. STUBBE	W0ZMU
KEN THILL	K0WHO
REBECCA WILKERSON	
JOSEPH WILKERSON	
CATHY WILKERSON	KC0JTH
G. JEREMIAH WILLIAMSON	WB9EIU
LANDON L. YOUNG	N5NHK

Total Number of Members

165

Pikes Peak Region Ham Radio Event Calendar

March / April 2002 -- Please see Page 2 for Points of Contact						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2 MARC VE Test
3 PPFMA Mtg	4	5	6	7	8	9 ARESO EC Mtg
10 PPFMA Mtg (Snow date)	11	12	13 PPRAA Mtg	14	15 Lunch Bunch	16
17	18 Board Mtg	19	20 MARC Mtg	21 RACES Mtg	22	23
24	25 ZB Deadline	26	27	28	29	30 Swapfest Mtg
31	1	2	3	4	5	6 Longmont ARC hamfest
7	8	9	10 PPRAA Mtg	11	12 Lunch Bunch	13 Skywarn Trng PPRAA VE Test
14	15	16	17 MARC Mtg	18 RACES Mtg	19	20
21	22	23	24	25	26	27 Swapfest Mtg PSE MOD Walk America
28	29 ZB Deadline	30				

Questions about any event on this calendar? Something missing? Contact a Board Member!

Membership Application for the Pikes Peak Radio Amateur Association, Inc. P.O. Box 16521, Colorado Springs, CO 80935-6521	
Date: _____ <input type="checkbox"/> New Member <input type="checkbox"/> Renewal Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Call: _____ Class: N T + G A E Phone: _____ Mbr of ARRL? <input type="checkbox"/> Yes <input type="checkbox"/> No E-mail: _____ Additional Family Members to Join/Renew: Name: _____ Call: _____ Class: _____ ARRL? _____ Name: _____ Call: _____ Class: _____ ARRL? _____ Name: _____ Call: _____ Class: _____ ARRL? _____	In which activities would you like to participate? Field Day <input type="checkbox"/> Demonstrations <input type="checkbox"/> Nets or round tables <input type="checkbox"/> Organize activities <input type="checkbox"/> Teach ham classes <input type="checkbox"/> Full Member \$15: <input type="checkbox"/> Family Membership \$18: <input type="checkbox"/> Over 65 \$10: <input type="checkbox"/> Over 65 Family \$12: <input type="checkbox"/> Associate \$12: <input type="checkbox"/> Ø-Beat Only \$12: <input type="checkbox"/> Donation to Club: \$ _____ Total Enclosed: _____
<u>MAKE ALL CHECKS PAYABLE TO "PPRAA"</u>	
Please indicate how you'd like your Ø-Beat delivered: <input type="checkbox"/> Standard hardcopy via U.S. Mail (Defaults to standard hard copy in the event that NO check boxes are checked) <input type="checkbox"/> As a PDF file attachment via e-mail, to help save a few bucks <input type="checkbox"/> I'll save the club a few bucks and download it from the Web!	
Circle your interests ⇒ HF / V/UHF / FM / SSB / Digital / DX / Contests / Technical / Hardware / Other _____	
New and renewing members must submit a completed application form along with your check to the Treasurer. Please Type or Print Clearly!	

ALL NEW MEMBERSHIPS AND RENEWALS WILL BE PRORATED TO EXPIRE IN DECEMBER!!

RadioActivities!

Lunch Bunch



The next **Lunch Bunch** is Mar 12 at Country Buffet in the Citadel Crossing Shopping Center, Academy & Galley, 1130-1300. (Always the **Friday** following the club meeting.) Moe WBØRTF is now coordinating

the Lunch Bunch !! Note: **This is a different location than in recent months!**

Hamfest Horizon

- **Apr 6:** Longmont ARC LARCFest, Boulder County Fairgrounds, Longmont. www.qsl.net/larc
- **May 17-19:** Dayton Hamvention, Dayton, OH. 937-276-6930. P.O. Box 964, Dayton OH 45401-0964. www.hamvention.org
- **Jun 1:** PPRAA Megafest 2002! Lewis-Palmer High School. Raffle prize: FT-100D, Yaesu VX-1R. Bob Ryals KIØGF, rryals@pcisys.net, 265-9950. www.qsl.net/ppraa

Dits & Bits

- **Wanted:** I am in need of two large megabyte or one small gigabyte hard drive. Mike WV7T, 634-7168, wv7t@aol.com.

Jess Miley

KØTAA

719 W 7th, Florence, CO, 81226

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Jess will be closed in March due to medical appointments.

Pikes Peak Radio Amateur Association, Inc.

P.O. Box 16521

Colorado Springs, CO 80935-6521 USA

First Class Mail

To: